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OM nucleic - nucleic search, using sw model

Run on: August 18, 2002, 17:17:25 ; Search time 52.56 Seconds  
(without alignments)  
6706.318 Million cell updates/sec

Title: US-09-763-748-1  
Perfect score: 1435  
Sequence: 1 ctggcggcggtggaacca.....gataataaagtataacacgg 1435

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 403436

Minimum DB seq length: 0  
Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Issued\_Patents\_NA: \*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq: \*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq: \*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq: \*  
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5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq: \*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	28	2.0	28	2	US-08-859-998-1206
2	28	2.0	28	4	US-09-225-928-1206
3	26	1.8	26	2	US-08-859-998-1205
4	26	1.8	26	4	US-09-225-928-1205
5	22	1.5	22	3	US-09-143-212-3
6	20	1.4	20	3	US-09-143-212-2
7	20	1.4	30	1	US-08-068-747-2
8	19.8	1.4	28	4	US-09-025-580-6
9	19.4	1.4	21	2	US-08-863-639A-67
10	19.4	1.4	21	2	US-08-863-639A-71
11	19.4	1.4	21	2	US-08-416-214A-11
12	19.4	1.4	24	2	US-08-570-155-17
13	19.4	1.4	25	1	US-08-374-144-3
14	19.4	1.4	25	1	US-08-775-164-3
15	19.4	1.4	25	2	US-08-775-609-3
16	19.4	1.4	25	2	US-08-775-607-3
17	19.4	1.4	25	5	PCT-US93-06828-3
18	19	1.3	19	3	US-09-143-212-4
19	18.8	1.3	25	3	US-08-622-277A-17
20	18.8	1.3	28	3	US-08-863-813A-38
21	18.8	1.3	28	4	US-08-676-318A-38
22	18.4	1.3	20	4	US-09-030-701-65
23	18.4	1.3	20	4	US-09-082-649B-57
24	18.4	1.3	21	2	US-08-863-639A-52
25	18.4	1.3	21	2	US-08-863-639A-55
26	18.4	1.3	21	2	US-08-863-639A-56
27	18.4	1.3	21	2	US-08-863-639A-58

c 101	18	1.3	18	3	US-09-143-212-80	Sequence 80, Appl	174	15.8	1.1	20	4	US-09-364-416-75	Sequence 75, Appl
c 102	18	1.3	18	3	US-09-143-212-81	Sequence 81, Appl	175	15.8	1.1	25	3	US-08-737-607-21	Sequence 21, Appl
c 103	18	1.3	18	3	US-09-143-212-82	Sequence 82, Appl	c 176	15.8	1.1	27	2	US-08-778-487-7	Sequence 7, Appl
c 104	18	1.3	18	3	US-09-143-212-83	Sequence 83, Appl	c 177	15.8	1.1	27	3	US-08-891-516-7	Sequence 7, Appl
c 105	18	1.3	18	3	US-09-143-212-84	Sequence 84, Appl	c 178	15.8	1.1	27	3	US-08-837-034-7	Sequence 7, Appl
c 106	18	1.3	18	3	US-09-143-212-85	Sequence 85, Appl	c 179	15.8	1.1	28	1	US-08-466-033-49	Sequence 49, Appl
c 107	18	1.3	18	3	US-09-143-212-86	Sequence 86, Appl	180	15.8	1.1	28	1	US-08-444-733-49	Sequence 49, Appl
c 108	18	1.3	18	3	US-09-143-212-87	Sequence 87, Appl	181	15.8	1.1	28	1	US-08-464-134-49	Sequence 49, Appl
c 109	18	1.3	18	3	US-08-353-400-5	Sequence 5, Appl	182	15.8	1.1	28	2	US-08-461-361-49	Sequence 49, Appl
c 110	17.4	1.2	20	4	US-09-043-303-16	Sequence 16, Appl	183	15.8	1.1	28	2	US-08-485-910-49	Sequence 49, Appl
c 111	17	1.2	18	2	US-08-857-946-14	Sequence 14, Appl	c 184	15.8	1.1	28	3	US-08-846-020A-2	Sequence 2, Appl
c 112	17	1.2	18	3	US-08-970-740-14	Sequence 14, Appl	c 185	15.8	1.1	28	4	US-09-617-871-2	Sequence 2, Appl
c 113	17	1.2	20	4	US-09-593-711A-37	Sequence 37, Appl	c 186	15.8	1.1	28	5	PCT-US95-06266-33	Sequence 33, Appl
c 114	16.8	1.2	23	1	US-08-308-949A-11	Sequence 11, Appl	c 187	15.8	1.1	29	1	US-08-205-777-1	Sequence 1, Appl
c 115	16.8	1.2	26	1	US-08-487-141B-43	Sequence 43, Appl	c 188	15.8	1.1	29	1	US-08-442-542-37	Sequence 37, Appl
c 116	16.8	1.2	26	2	US-08-927-561-43	Sequence 43, Appl	c 189	15.8	1.1	29	1	US-08-611-872-1	Sequence 1, Appl
c 117	16.8	1.2	26	5	PCT-US96-09388-43	Sequence 43, Appl	c 190	15.8	1.1	29	3	US-08-765-469-37	Sequence 37, Appl
c 118	16.8	1.2	28	2	US-08-859-998-1203	Sequence 1203, Ap	c 191	15.8	1.1	30	1	US-08-623-891-76	Sequence 76, Appl
c 119	16.8	1.2	28	4	US-09-225-928-1203	Sequence 1203, Ap	c 192	15.8	1.1	30	2	US-07-916-098A-42	Sequence 42, Appl
c 120	16.8	1.2	30	1	US-08-585-197A-32	Sequence 32, Appl	c 193	15.8	1.1	30	2	US-08-442-809A-40	Sequence 40, Appl
c 121	16.8	1.2	30	5	PCT-US95-07372-3	Sequence 3, Appl	c 194	15.6	1.1	22	1	US-08-356-790-10	Sequence 10, Appl
c 122	16.6	1.2	24	1	US-07-722-798A-49	Sequence 49, Appl	c 195	15.6	1.1	22	4	US-09-444-053-6	Sequence 6, Appl
c 123	16.6	1.2	24	1	US-08-460-344-7	Sequence 7, Appl	c 196	15.6	1.1	23	2	US-07-728-215-10	Sequence 10, Appl
c 124	16.6	1.2	24	1	US-08-133-598A-7	Sequence 7, Appl	c 197	15.6	1.1	23	4	US-08-938-085A-10	Sequence 10, Appl
c 125	16.6	1.2	24	1	US-08-886-999-7	Sequence 7, Appl	c 198	15.6	1.1	23	3	US-09-014-065-17	Sequence 17, Appl
c 126	16.6	1.2	24	5	PCT-US93-05085-7	Sequence 7, Appl	c 199	15.6	1.1	25	3	US-09-485-737B-60	Sequence 60, Appl
c 127	16.6	1.2	29	1	US-08-413-118-93	Sequence 93, Appl	c 200	15.6	1.1	26	4	US-09-485-737B-36	Sequence 36, Appl
c 128	16.6	1.2	29	3	US-08-473-446-93	Sequence 93, Appl	c 201	15.6	1.1	27	2	US-08-410-654B-36	Sequence 36, Appl
c 129	16.6	1.2	29	3	US-08-793-701-16	Sequence 16, Appl	c 202	15.6	1.1	27	2	US-08-474-851-36	Sequence 36, Appl
c 130	16.4	1.1	20	4	US-09-517-584A-13	Sequence 13, Appl	c 203	15.6	1.1	27	3	US-08-481-560-36	Sequence 36, Appl
c 131	16.4	1.1	27	1	US-08-758-306-42	Sequence 42, Appl	c 204	15.6	1.1	27	3	US-09-167-354-2	Sequence 2, Appl
c 132	16.4	1.1	28	1	US-07-977-696C-3	Sequence 3, Appl	c 205	15.6	1.1	27	3	US-09-105-907-4	Sequence 4, Appl
c 133	16.4	1.1	28	1	US-08-129-930B-3	Sequence 3, Appl	c 206	15.6	1.1	27	4	US-09-196-387-5	Sequence 5, Appl
c 134	16.4	1.1	28	4	US-08-976-288A-3	Sequence 3, Appl	c 207	15.6	1.1	30	1	US-08-049-283A-17	Sequence 17, Appl
c 135	16.4	1.1	29	3	US-09-248-571-7	Sequence 7, Appl	c 208	15.6	1.1	30	1	US-08-242-664-43	Sequence 43, Appl
c 136	16.4	1.1	29	3	US-09-248-571-18	Sequence 18, Appl	c 209	15.6	1.1	30	1	US-08-484-138-43	Sequence 43, Appl
c 137	16.2	1.1	23	1	US-07-722-798A-50	Sequence 50, Appl	c 210	15.6	1.1	30	2	US-08-716-317-3	Sequence 3, Appl
c 138	16.2	1.1	23	2	US-08-303-569B-2	Sequence 2, Appl	c 211	15.6	1.1	30	5	PCT-US95-06379-43	Sequence 43, Appl
c 139	16.2	1.1	23	2	US-08-070-116A-16	Sequence 16, Appl	c 212	15.6	1.1	30	5	PCT-US95-07372-3	Sequence 3, Appl
c 140	16.2	1.1	23	2	US-08-116-247-2	Sequence 2, Appl	c 213	15.4	1.1	18	2	US-09-205-860-10	Sequence 10, Appl
c 141	16.2	1.1	24	2	US-08-677-734A-5	Sequence 5, Appl	c 214	15.4	1.1	18	2	US-08-857-946-8	Sequence 8, Appl
c 142	16.2	1.1	30	1	US-08-479-487-65	Sequence 65, Appl	c 215	15.4	1.1	18	3	US-08-970-740-8	Sequence 8, Appl
c 143	16.2	1.1	30	1	US-08-440-787A-61	Sequence 61, Appl	c 216	15.4	1.1	18	4	US-08-679-645-1167	Sequence 1167, Ap
c 144	16.2	1.1	30	2	US-08-422-333-28	Sequence 28, Appl	c 217	15.4	1.1	20	2	US-08-465-485A-28	Sequence 28, Appl
c 145	16.2	1.1	30	4	US-08-367-685-61	Sequence 61, Appl	c 218	15.4	1.1	20	3	US-09-080-285-28	Sequence 28, Appl
c 146	16.2	1.1	30	5	PCT-US91-07141-61	Sequence 61, Appl	c 219	15.4	1.1	22	2	US-08-410-654B-33	Sequence 33, Appl
c 147	16	1.1	17	3	US-08-909-742-3	Sequence 3, Appl	c 220	15.4	1.1	22	2	US-08-474-851-33	Sequence 33, Appl
c 148	16	1.1	17	3	US-08-909-742-4	Sequence 4, Appl	c 221	15.4	1.1	22	2	US-08-481-560-33	Sequence 33, Appl
c 149	16	1.1	17	4	US-09-412-289-3	Sequence 3, Appl	c 222	15.4	1.1	24	2	US-08-863-639A-27	Sequence 27, Appl
c 150	16	1.1	17	4	US-09-412-289-4	Sequence 4, Appl	c 223	15.4	1.1	25	1	US-07-952-817-29	Sequence 29, Appl
c 151	16	1.1	18	4	US-08-679-645-1165	Sequence 1165, Ap	c 224	15.4	1.1	25	2	US-08-896-410-17	Sequence 17, Appl
c 152	16	1.1	24	1	US-08-486-421-51	Sequence 51, Appl	c 225	15.4	1.1	26	1	US-08-623-891-40	Sequence 40, Appl
c 153	16	1.1	24	1	US-08-470-911-51	Sequence 51, Appl	c 226	15.4	1.1	27	1	US-08-409-199-9	Sequence 9, Appl
c 154	16	1.1	24	2	US-08-486-809-51	Sequence 51, Appl	c 227	15.4	1.1	27	1	US-08-758-306-1028	Sequence 1028, Ap
c 155	16	1.1	24	5	PCT-US93-00321-1	Sequence 1, Appl	c 228	15.4	1.1	27	4	US-08-584-040-4921	Sequence 4921, Ap
c 156	16	1.1	24	5	PCT-US93-00321-2	Sequence 2, Appl	c 229	15.4	1.1	27	4	US-08-026-143B-43	Sequence 43, Appl
c 157	16	1.1	24	5	PCT-US93-00321-3	Sequence 3, Appl	c 230	15.4	1.1	27	5	PCT-US92-10621-43	Sequence 43, Appl
c 158	16	1.1	24	5	PCT-US93-00321-4	Sequence 4, Appl	c 231	15.4	1.1	27	5	PCT-US94-02233-43	Sequence 43, Appl
c 159	16	1.1	25	1	US-08-155-746-14	Sequence 14, Appl	c 232	15.4	1.1	29	1	US-08-136-119-24	Sequence 24, Appl
c 160	16	1.1	25	1	US-08-341-148-16	Sequence 16, Appl	c 233	15.4	1.1	30	1	US-07-931-473B-25	Sequence 25, Appl
c 161	16	1.1	25	5	PCT-US94-00771-14	Sequence 14, Appl	c 234	15.4	1.1	30	1	US-07-734-225A-37	Sequence 37, Appl
c 162	16	1.1	25	5	PCT-US94-14096-16	Sequence 16, Appl	c 235	15.4	1.1	30	1	US-07-692-995B-37	Sequence 37, Appl
c 163	16	1.1	26	1	US-08-608-881A-10	Sequence 10, Appl	c 236	15.4	1.1	30	1	US-08-106-761-5	Sequence 5, Appl
c 164	16	1.1	27	4	US-07-989-845-5	Sequence 5, Appl	c 237	15.4	1.1	30	1	US-07-714-131C-25	Sequence 25, Appl
c 165	16	1.1	27	1	US-09-219-337-6	Sequence 6, Appl	c 238	15.4	1.1	30	1	US-08-412-110-25	Sequence 25, Appl
c 166	16	1.1	27	4	US-08-584-040-3643	Sequence 3643, Ap	c 239	15.4	1.1	30	1	US-08-409-442A-25	Sequence 25, Appl
c 167	16	1.1	27	4	US-08-584-040-5051	Sequence 5051, Ap	c 240	15.4	1.1	30	1	US-08-474-587-8	Sequence 8, Appl
c 168	16	1.1	27	5	PCT-US93-11298-5	Sequence 5, Appl	c 241	15.4	1.1	30	1	US-08-488-457-37	Sequence 37, Appl
c 169	16	1.1	28	4	US-09-283-144-5	Sequence 5, Appl	c 242	15.4	1.1	30	1	US-08-324-243-9	Sequence 9, Appl
c 170	16	1.1	30	4	US-08-974-549A-547	Sequence 547, App	c 243	15.4	1.1	30	1	US-08-532-390-9	Sequence 9, Appl
c 171	15.8	1.1	20	3	US-08-837-201C-75	Sequence 75, Appl	c 244	15.4	1.1	30	2	US-08-469-609A-25	Sequence 25, Appl
c 172	15.8	1.1	20	2	US-08-914-961-2	Sequence 2, Appl	c 245	15.4	1.1	30	3	US-09-143-190-25	Sequence 25, Appl
c 173	15.8	1.1	20	4	US-09-101-886B-15	Sequence 15, Appl	c 246	15.4	1.1	30	3	US-08-717-294-9	Sequence 9, Appl

[illegible]

393	14.8	1.0	29	2	US-08-469-609A-32	Sequence 32, Appl	c 466	14.6	1.0	27	3	US-08-567-200A-31	Sequence 31, Appl
394	14.8	1.0	29	2	US-08-256-426B-241	Sequence 241, Appl	467	14.6	1.0	27	3	US-08-985-162-1436	Sequence 1436, Ap
395	14.8	1.0	29	2	US-08-599-455B-12	Sequence 12, Appl	468	14.6	1.0	27	3	US-08-985-162-1537	Sequence 1537, Ap
396	14.8	1.0	29	3	US-09-143-190-32	Sequence 32, Appl	469	14.6	1.0	27	3	US-08-691-794-34	Sequence 34, Appl
397	14.8	1.0	29	4	US-08-804-372A-26	Sequence 26, Appl	470	14.6	1.0	27	4	US-08-776-971-41	Sequence 41, Appl
398	14.8	1.0	29	4	US-08-804-372A-28	Sequence 28, Appl	471	14.6	1.0	27	4	US-08-584-040-6840	Sequence 6840, Ap
399	14.8	1.0	29	4	US-09-061-048-1	Sequence 1, Appl1	472	14.6	1.0	27	4	US-08-584-040-7055	Sequence 7055, Ap
400	14.8	1.0	29	4	US-09-069-781B-12	Sequence 12, Appl	473	14.6	1.0	28	1	US-08-750-077-2	Sequence 2, Appl1
401	14.8	1.0	30	1	PCT-US93-04384A-24	Sequence 24, Appl	474	14.6	1.0	28	2	US-08-622-740-17	Sequence 17, Appl
402	14.8	1.0	30	1	US-07-646-998A-19	Sequence 19, Appl	475	14.6	1.0	28	2	US-08-859-998-1117	Sequence 1117, Ap
403	14.8	1.0	30	1	US-07-989-160-6	Sequence 6, Appl1	476	14.6	1.0	28	3	US-08-440-689-17	Sequence 17, Appl
404	14.8	1.0	30	1	US-08-361-920-71	Sequence 71, Appl	477	14.6	1.0	28	3	US-08-995-451-2	Sequence 2, Appl1
405	14.8	1.0	30	1	US-08-094-128A-19	Sequence 19, Appl	478	14.6	1.0	28	4	US-09-312-285-11	Sequence 11, Appl
406	14.8	1.0	30	1	US-08-442-134A-6	Sequence 6, Appl1	479	14.6	1.0	28	4	US-09-312-266-13	Sequence 13, Appl
407	14.8	1.0	30	1	US-08-444-581B-6	Sequence 6, Appl1	480	14.6	1.0	28	4	US-09-312-038-13	Sequence 13, Appl
408	14.8	1.0	30	1	US-08-455-674-19	Sequence 19, Appl	481	14.6	1.0	28	4	US-09-122-399-17	Sequence 17, Appl
409	14.8	1.0	30	1	US-08-455-992-19	Sequence 19, Appl	482	14.6	1.0	28	4	US-09-225-928-1117	Sequence 1117, Ap
410	14.8	1.0	30	1	US-08-455-972-19	Sequence 19, Appl	483	14.6	1.0	29	1	US-07-640-476-22	Sequence 22, Appl
411	14.8	1.0	30	1	US-08-094-128A-19	Sequence 71, Appl	484	14.6	1.0	29	1	US-08-116-101A-14	Sequence 14, Appl
412	14.8	1.0	30	1	US-08-479-939-71	Sequence 6, Appl1	485	14.6	1.0	29	1	US-08-362-670B-21	Sequence 21, Appl
413	14.8	1.0	30	1	US-08-446-088A-6	Sequence 6, Appl1	486	14.6	1.0	29	1	US-08-944-604-22	Sequence 22, Appl
414	14.8	1.0	30	1	US-08-483-432-71	Sequence 71, Appl	487	14.6	1.0	29	1	US-08-306-871-23	Sequence 23, Appl
415	14.8	1.0	30	3	US-08-814-052-32	Sequence 32, Appl	488	14.6	1.0	29	3	US-08-569-959-23	Sequence 23, Appl
416	14.8	1.0	30	3	US-08-812-829-24	Sequence 24, Appl	489	14.6	1.0	29	3	US-08-757-024-614	Sequence 614, App
417	14.8	1.0	30	4	US-09-252-436-39	Sequence 39, Appl	490	14.6	1.0	29	3	US-08-333-576C-21	Sequence 21, Appl
418	14.8	1.0	30	4	US-08-647-924-8	Sequence 8, Appl1	491	14.6	1.0	29	3	US-09-121-321-14	Sequence 14, Appl
419	14.8	1.0	30	4	US-09-630-377-4	Sequence 4, Appl1	492	14.6	1.0	29	4	US-08-933-803A-14	Sequence 14, Appl
420	14.8	1.0	30	4	US-09-042-071-32	Sequence 32, Appl	493	14.6	1.0	29	4	US-08-808-324-21	Sequence 21, Appl
421	14.8	1.0	30	5	US-08-696-932A-33	Sequence 33, Appl	494	14.6	1.0	29	4	US-09-099-301-14	Sequence 14, Appl
422	14.8	1.0	30	5	PCT-US92-00652-19	Sequence 19, Appl	495	14.6	1.0	29	5	US-09-099-301-14	Sequence 14, Appl
423	14.8	1.0	30	5	PCT-US95-02689-27	Sequence 27, Appl	496	14.6	1.0	29	5	PCT-US91-05808-4	Sequence 4, Appl1
424	14.6	1.0	30	5	PCT-US95-02689-43	Sequence 43, Appl	497	14.6	1.0	29	5	PCT-US94-14030A-21	Sequence 21, Appl
425	14.6	1.0	21	1	US-08-211-202-24	Sequence 24, Appl	498	14.6	1.0	29	6	US-08-208-486-73	Sequence 73, Appl
426	14.6	1.0	21	1	US-08-233-030-41	Sequence 41, Appl	499	14.6	1.0	30	1	US-08-208-486-73	Sequence 73, Appl
427	14.6	1.0	21	1	US-08-652-1270-1	Sequence 1, Appl1	500	14.6	1.0	30	1	US-08-083-948-11	Sequence 11, Appl
428	14.6	1.0	21	1	US-08-624-545-22	Sequence 22, Appl	501	14.6	1.0	30	1	US-08-393-785-11	Sequence 11, Appl
429	14.6	1.0	21	2	US-08-998-636-1	Sequence 1, Appl1	502	14.6	1.0	30	1	US-08-475-694-11	Sequence 11, Appl
430	14.6	1.0	21	3	US-08-390-353A-18	Sequence 18, Appl	503	14.6	1.0	30	1	US-08-306-870-6	Sequence 6, Appl1
431	14.6	1.0	21	4	US-09-115-446-14	Sequence 14, Appl	504	14.6	1.0	30	1	US-08-304-051-2	Sequence 2, Appl1
432	14.6	1.0	21	4	US-09-115-446-14	Sequence 14, Appl	505	14.6	1.0	30	1	US-08-495-743-57	Sequence 57, Appl
433	14.6	1.0	21	4	US-08-803-346-25	Sequence 25, Appl	506	14.6	1.0	30	1	US-08-386-579-8	Sequence 8, Appl1
434	14.6	1.0	21	4	US-09-423-890-31	Sequence 31, Appl	507	14.6	1.0	30	1	US-08-244-376-5	Sequence 5, Appl1
435	14.6	1.0	22	2	US-08-267-803B-23	Sequence 23, Appl	508	14.6	1.0	30	1	US-08-453-265-4	Sequence 4, Appl1
436	14.6	1.0	22	3	US-08-322-679-1	Sequence 1, Appl1	509	14.6	1.0	30	1	US-08-453-265-4	Sequence 4, Appl1
437	14.6	1.0	22	3	US-08-792-108A-4	Sequence 4, Appl1	510	14.6	1.0	30	1	US-08-495-739-57	Sequence 57, Appl
438	14.6	1.0	23	3	US-08-686-993A-13	Sequence 13, Appl	511	14.6	1.0	30	1	US-08-495-741-57	Sequence 57, Appl
439	14.6	1.0	23	4	US-08-318-794-9	Sequence 9, Appl1	512	14.6	1.0	30	1	US-08-712-057-11	Sequence 11, Appl
440	14.6	1.0	23	4	US-09-139-617-17	Sequence 17, Appl	513	14.6	1.0	30	2	US-08-473-020A-18	Sequence 18, Appl
441	14.6	1.0	24	1	US-08-470-106-9	Sequence 9, Appl1	514	14.6	1.0	30	2	US-08-428-257A-11	Sequence 11, Appl
442	14.6	1.0	24	1	US-07-971-101-1	Sequence 1, Appl1	515	14.6	1.0	30	3	US-08-814-052-39	Sequence 39, Appl
443	14.6	1.0	24	1	US-08-152-482-4	Sequence 4, Appl1	516	14.6	1.0	30	3	US-08-812-829-31	Sequence 31, Appl
444	14.6	1.0	24	1	US-08-544-577-4	Sequence 4, Appl1	517	14.6	1.0	30	3	US-08-757-024-589	Sequence 589, App
445	14.6	1.0	24	3	US-09-035-190-4	Sequence 4, Appl1	518	14.6	1.0	30	3	US-08-757-024-613	Sequence 613, App
446	14.6	1.0	24	3	US-09-108-099-4	Sequence 4, Appl1	519	14.6	1.0	30	3	US-08-444-818-190	Sequence 190, App
447	14.6	1.0	24	3	US-09-108-100-4	Sequence 4, Appl1	520	14.6	1.0	30	4	US-08-062-023-57	Sequence 57, Appl
448	14.6	1.0	24	3	US-08-557-210A-27	Sequence 27, Appl	521	14.6	1.0	30	4	US-09-461-697-35	Sequence 35, Appl
449	14.6	1.0	24	4	US-08-868-373-17	Sequence 17, Appl	522	14.6	1.0	30	5	PCT-US93-11527-5	Sequence 5, Appl1
450	14.6	1.0	24	5	PCT-US94-13041-4	Sequence 4, Appl1	523	14.6	1.0	30	5	PCT-US94-09700-21	Sequence 21, Appl
451	14.6	1.0	25	1	US-08-458-084-14	Sequence 14, Appl	524	14.6	1.0	30	5	PCT-US95-11445-2	Sequence 2, Appl1
452	14.6	1.0	25	1	US-08-205-508-14	Sequence 14, Appl	525	14.6	1.0	30	5	PCT-US96-01807-8	Sequence 8, Appl1
453	14.6	1.0	25	2	US-08-683-262B-2	Sequence 2, Appl1	526	14.4	1.0	16	3	US-08-911-894-13	Sequence 13, Appl
454	14.6	1.0	25	4	US-09-393-554-19	Sequence 19, Appl	527	14.4	1.0	16	3	US-08-911-894-14	Sequence 14, Appl
455	14.6	1.0	25	4	US-09-361-707-2	Sequence 2, Appl1	528	14.4	1.0	17	3	US-08-538-666-27	Sequence 27, Appl
456	14.6	1.0	25	4	US-08-949-1555-9	Sequence 9, Appl1	529	14.4	1.0	20	1	US-08-363-233B-4	Sequence 4, Appl1
457	14.6	1.0	25	5	PCT-US95-02945-14	Sequence 14, Appl	530	14.4	1.0	20	3	US-08-923-454A-38	Sequence 38, Appl
458	14.6	1.0	26	1	US-08-153-051B-35	Sequence 35, Appl	531	14.4	1.0	20	4	US-09-467-082-14	Sequence 14, Appl
459	14.6	1.0	26	1	US-08-060-952C-25	Sequence 25, Appl	532	14.4	1.0	20	4	US-08-943-731-656	Sequence 656, App
460	14.6	1.0	26	2	US-08-151-477A-35	Sequence 35, Appl	533	14.4	1.0	21	1	US-08-178-450-10	Sequence 10, Appl
461	14.6	1.0	26	2	US-08-659-998-980	Sequence 980, App	534	14.4	1.0	21	5	US-08-122-795B-9	Sequence 9, Appl1
462	14.6	1.0	26	3	US-08-819-867-13	Sequence 13, Appl	535	14.4	1.0	21	5	PCT-US94-0963A-9	Sequence 9, Appl1
463	14.6	1.0	26	4	US-09-155-152-1	Sequence 1, Appl1	536	14.4	1.0	22	1	US-08-471-724-34	Sequence 34, Appl
464	14.6	1.0	26	4	US-09-525-928-980	Sequence 980, App	537	14.4	1.0	22	2	US-08-471-969-34	Sequence 34, Appl
465	14.6	1.0	27	2	US-08-520-933-8	Sequence 8, Appl1	538	14.4	1.0	22	2	US-08-384-137-34	Sequence 34, Appl

c 539	14.4	1.0	22	2	US-08-470-006A-34	Sequence 34, Appl	612	14.4	1.0	30	1	US-08-412-110-30	Sequence 30, Appl
c 540	14.4	1.0	22	3	US-08-691-563C-34	Sequence 34, Appl	c 613	14.4	1.0	30	1	US-08-244-376-4	Sequence 4, Appl1
c 541	14.4	1.0	22	4	US-09-200-990-34	Sequence 34, Appl	c 614	14.4	1.0	30	1	US-08-409-442A-30	Sequence 30, Appl
c 542	14.4	1.0	22	4	US-09-133-411-34	Sequence 34, Appl	c 615	14.4	1.0	30	1	US-08-468-036-27	Sequence 27, Appl
c 543	14.4	1.0	23	4	US-09-338-907-458	Sequence 458, App	c 616	14.4	1.0	30	1	US-08-186-229-38	Sequence 38, Appl
c 544	14.4	1.0	23	4	US-09-218-207-458	Sequence 458, App	c 617	14.4	1.0	30	1	US-08-663-023-10	Sequence 10, Appl
c 545	14.4	1.0	24	1	US-08-242-403A-58	Sequence 58, Appl	c 618	14.4	1.0	30	1	US-08-321-613-2	Sequence 2, Appl1
c 546	14.4	1.0	24	1	US-08-774-128-58	Sequence 58, Appl	c 619	14.4	1.0	30	1	US-07-642-734C-7	Sequence 7, Appl1
c 547	14.4	1.0	24	4	US-09-220-528-67	Sequence 67, Appl	c 620	14.4	1.0	30	2	US-08-469-609A-30	Sequence 30, Appl
c 548	14.4	1.0	24	5	PCT-US93-12603-5	Sequence 5, Appl1	c 621	14.4	-1.0	30	2	US-08-376-843-27	Sequence 27, Appl
c 549	14.4	1.0	24	5	PCT-US95-05602-58	Sequence 58, Appl	c 622	14.4	1.0	30	2	US-08-470-124-38	Sequence 38, Appl
c 550	14.4	1.0	24	5	PCT-US95-05816-58	Sequence 58, Appl	c 623	14.4	1.0	30	2	US-08-800-353-67	Sequence 67, Appl
c 551	14.4	1.0	25	2	US-08-484-956-75	Sequence 75, Appl	c 624	14.4	1.0	30	3	US-08-439-009A-7	Sequence 7, Appl1
c 552	14.4	1.0	25	2	US-08-757-653-75	Sequence 75, Appl	c 625	14.4	1.0	30	3	US-09-079-415-9	Sequence 9, Appl1
c 553	14.4	1.0	25	2	US-08-610-728B-13	Sequence 13, Appl	c 626	14.4	1.0	30	3	US-09-095-163-3	Sequence 3, Appl1
c 554	14.4	1.0	25	2	US-08-610-728B-14	Sequence 14, Appl	c 627	14.4	1.0	30	3	US-09-143-190-30	Sequence 30, Appl
c 555	14.4	1.0	25	2	US-08-610-728B-16	Sequence 16, Appl	c 628	14.4	1.0	30	3	US-08-840-062-15	Sequence 15, Appl
c 556	14.4	1.0	25	2	US-08-610-728B-17	Sequence 17, Appl	c 629	14.4	1.0	30	3	US-08-836-567-14	Sequence 14, Appl
c 557	14.4	1.0	25	2	US-08-599-455B-37	Sequence 37, Appl	c 630	14.4	1.0	30	4	US-09-173-914-21	Sequence 21, Appl
c 558	14.4	1.0	25	2	US-08-859-998-379	Sequence 379, App	c 631	14.4	1.0	30	4	US-08-687-421-143	Sequence 143, App
c 559	14.4	1.0	25	2	US-08-859-998-1168	Sequence 1168, Ap	c 632	14.4	1.0	30	4	US-08-687-421-147	Sequence 147, App
c 560	14.4	1.0	25	3	US-08-772-512A-18	Sequence 18, Appl	c 633	14.4	1.0	30	4	US-08-860-656B-6	Sequence 6, Appl
c 561	14.4	1.0	25	4	US-08-974-549A-434	Sequence 434, App	c 634	14.4	1.0	30	4	US-09-443-501A-3	Sequence 3, Appl1
c 562	14.4	1.0	25	4	US-09-069-781B-37	Sequence 37, Appl	c 635	14.4	1.0	30	4	US-09-196-390-3	Sequence 3, Appl1
c 563	14.4	1.0	25	4	US-09-225-928-379	Sequence 379, App	c 636	14.4	1.0	30	4	US-08-506-296B-35	Sequence 35, Appl
c 564	14.4	1.0	25	4	US-09-225-928-1168	Sequence 1168, Ap	c 637	14.4	1.0	30	5	PCT-US92-06185-67	Sequence 67, Appl
c 565	14.4	1.0	25	6	5200340-26	Patent No. 5200340	c 638	14.4	1.0	30	5	PCT-US93-11527-4	Sequence 4, Appl1
c 566	14.4	1.0	26	1	US-08-429-121B-6	Sequence 6, Appl1	c 639	14.2	1.0	19	1	US-08-167-336A-9	Sequence 9, Appl1
c 567	14.4	1.0	26	1	US-08-429-121B-70	Sequence 70, Appl	c 640	14.2	1.0	19	1	US-08-416-962-9	Sequence 9, Appl1
c 568	14.4	1.0	26	1	US-08-591-070A-51	Sequence 51, Appl	c 641	14.2	1.0	19	1	US-08-589-011-9	Sequence 9, Appl1
c 569	14.4	1.0	26	2	US-08-467-265-8	Sequence 8, Appl1	c 642	14.2	1.0	19	1	US-08-244-378A-61	Sequence 61, Appl
c 570	14.4	1.0	26	2	US-08-927-855-51	Sequence 51, Appl	c 643	14.2	1.0	19	2	US-08-948-762-9	Sequence 9, Appl1
c 571	14.4	1.0	26	2	US-09-003-067-6	Sequence 6, Appl1	c 644	14.2	1.0	19	2	US-08-860-882A-52	Sequence 52, Appl
c 572	14.4	1.0	26	2	US-09-003-067-70	Sequence 70, Appl	c 645	14.2	1.0	19	4	US-09-171-945-110	Sequence 110, App
c 573	14.4	1.0	26	2	US-08-859-998-650	Sequence 650, App	c 646	14.2	1.0	20	2	US-09-044-508A-10	Sequence 10, Appl
c 574	14.4	1.0	26	4	US-08-467-265-8	Sequence 8, Appl1	c 647	14.2	1.0	20	3	US-09-344-001-10	Sequence 10, Appl
c 575	14.4	1.0	26	4	US-09-407-891-8	Sequence 8, Appl1	c 648	14.2	1.0	20	3	US-08-840-551-1	Sequence 1, Appl1
c 576	14.4	1.0	26	4	US-09-225-928-650	Sequence 650, App	c 649	14.2	1.0	20	4	US-09-359-756-8	Sequence 8, Appl1
c 577	14.4	1.0	27	1	US-08-293-778-20	Sequence 20, Appl	c 650	14.2	1.0	20	4	US-09-435-296-56	Sequence 56, Appl1
c 578	14.4	1.0	27	1	US-08-538-875-44	Sequence 44, Appl	c 651	14.2	1.0	20	4	US-09-428-219-16	Sequence 16, Appl
c 579	14.4	1.0	27	1	US-08-451-715A-31	Sequence 31, Appl	c 652	14.2	1.0	20	4	US-08-927-219-57	Sequence 57, Appl
c 580	14.4	1.0	27	2	US-08-767-026-10	Sequence 10, Appl	c 653	14.2	1.0	20	4	US-09-226-012-38	Sequence 38, Appl
c 581	14.4	1.0	27	2	US-08-710-249-24	Sequence 24, Appl	c 654	14.2	1.0	20	4	US-09-038-637-139	Sequence 139, App
c 582	14.4	1.0	27	2	US-08-670-186-8	Sequence 8, Appl1	c 655	14.2	1.0	20	4	US-09-593-711A-161	Sequence 161, App
c 583	14.4	1.0	27	2	US-08-704-931-15	Sequence 15, Appl	c 656	14.2	1.0	20	4	US-09-721-822A-23	Sequence 23, Appl
c 584	14.4	1.0	27	2	US-08-415-593-1	Sequence 1, Appl1	c 657	14.2	1.0	20	4	US-09-536-259-9	Sequence 9, Appl1
c 585	14.4	1.0	27	3	US-08-985-162-1266	Sequence 1266, Ap	c 658	14.2	1.0	21	1	US-08-342-023-1	Sequence 1, Appl1
c 586	14.4	1.0	27	4	US-09-253-396A-93	Sequence 93, Appl	c 659	14.2	1.0	21	1	US-08-434-411-11	Sequence 11, Appl
c 587	14.4	1.0	27	4	US-09-220-157A-24	Sequence 24, Appl	c 660	14.2	1.0	21	1	US-08-434-402-11	Sequence 11, Appl
c 588	14.4	1.0	27	4	US-08-506-296B-40	Sequence 40, Appl	c 661	14.2	1.0	21	1	US-08-783-288-11	Sequence 11, Appl
c 589	14.4	1.0	27	4	US-08-584-040-4519	Sequence 4519, Ap	c 662	14.2	1.0	21	2	US-08-360-606B-20	Sequence 20, Appl
c 590	14.4	1.0	27	4	US-08-584-040-5192	Sequence 5192, Ap	c 663	14.2	1.0	21	2	US-09-018-595B-9	Sequence 9, Appl1
c 591	14.4	1.0	27	4	US-08-584-040-6504	Sequence 6504, Ap	c 664	14.2	1.0	21	2	US-08-890-640-11	Sequence 11, Appl
c 592	14.4	1.0	28	1	US-08-446-729-11	Sequence 11, Appl	c 665	14.2	1.0	21	3	US-09-324-709A-9	Sequence 9, Appl1
c 593	14.4	1.0	28	2	US-08-882-704A-14	Sequence 14, Appl	c 666	14.2	1.0	21	4	US-08-853-980-22	Sequence 22, Appl
c 594	14.4	1.0	28	2	US-08-859-998-311	Sequence 311, App	c 667	14.2	1.0	21	6	5194592-37	Patent No. 5194592
c 595	14.4	1.0	28	2	US-08-859-998-1239	Sequence 1239, Ap	c 668	14.2	1.0	22	4	US-08-287-075-7	Sequence 7, Appl1
c 596	14.4	1.0	28	4	US-09-225-928-311	Sequence 311, App	c 669	14.2	1.0	22	4	US-07-974-409C-11	Sequence 11, Appl
c 597	14.4	1.0	28	4	US-09-225-928-1239	Sequence 1239, Ap	c 670	14.2	1.0	22	4	US-07-974-409C-312	Sequence 312, App
c 598	14.4	1.0	29	1	US-08-439-818A-19	Sequence 19, Appl	c 671	14.2	1.0	22	5	PCT-US93-00977-11	Sequence 11, Appl
c 599	14.4	1.0	29	2	US-08-751-965-19	Sequence 19, Appl	c 672	14.2	1.0	22	5	PCT-US93-00977-312	Sequence 312, App
c 600	14.4	1.0	29	2	US-08-738-975-19	Sequence 19, Appl	c 673	14.2	1.0	22	6	5520913-4	Patent No. 5520913
c 601	14.4	1.0	29	2	US-08-728-626-19	Sequence 19, Appl	c 674	14.2	1.0	23	1	US-07-722-798A-78	Sequence 78, Appl
c 602	14.4	1.0	29	3	US-08-772-512A-9	Sequence 9, Appl1	c 675	14.2	1.0	23	1	US-08-281-082A-32	Sequence 32, Appl
c 603	14.4	1.0	29	3	US-08-808-599A-19	Sequence 19, Appl	c 676	14.2	1.0	23	1	US-08-370-567-36	Sequence 36, Appl
c 604	14.4	1.0	29	4	US-08-675-773B-9	Sequence 9, Appl1	c 677	14.2	1.0	23	1	US-08-438-759-36	Sequence 36, Appl
c 605	14.4	1.0	30	1	US-07-931-473B-30	Sequence 30, Appl	c 678	14.2	1.0	23	1	US-08-538-911-11	Sequence 11, Appl
c 606	14.4	1.0	30	1	US-07-959-943-4	Sequence 4, Appl1	c 679	14.2	1.0	23	1	US-08-117-361C-21	Sequence 21, Appl
c 607	14.4	1.0	30	1	US-08-089-910-2	Sequence 2, Appl1	c 680	14.2	1.0	23	2	US-08-860-882A-39	Sequence 39, Appl
c 608	14.4	1.0	30	1	US-07-714-131C-30	Sequence 30, Appl	c 681	14.2	1.0	23	2	US-08-860-882A-51	Sequence 51, Appl
c 609	14.4	1.0	30	1	US-07-834-539A-67	Sequence 67, Appl	c 682	14.2	1.0	23	3	US-09-205-921-4	Sequence 4, Appl1
c 610	14.4	1.0	30	1	US-08-384-708A-143	Sequence 143, App	c 683	14.2	1.0	23	3	US-08-846-020A-15	Sequence 15, Appl
c 611	14.4	1.0	30	1	US-08-384-708A-147	Sequence 147, App	c 684	14.2	1.0	23	3	US-09-429-499-3	Sequence 3, Appl1



831	14	1.0	20	1	US-08-477-407-18	Sequence 18, Appl	904	14	1.0	25	3	US-08-961-871-8	Sequence 8, Appl1
832	14	1.0	20	1	US-08-484-355-18	Sequence 18, Appl	c 905	14	1.0	25	3	US-08-469-318-104	Sequence 104, App
c 833	14	1.0	20	4	US-09-446-504-24	Sequence 24, Appl	c 906	14	1.0	25	3	US-08-468-609A-104	Sequence 104, App
c 834	14	1.0	20	4	US-09-712-266-24	Sequence 24, Appl	907	14	1.0	25	4	US-08-974-549A-471	Sequence 471, App
c 835	14	1.0	22	1	US-08-052-404-9	Sequence 9, Appl1	c 908	14	1.0	25	4	US-09-586-935-17	Sequence 17, Appl
836	14	1.0	22	1	US-08-479-156-9	Sequence 9, Appl1	c 909	14	1.0	25	4	US-08-822-516-4	Sequence 41, Appl
837	14	1.0	22	1	US-08-398-613A-2	Sequence 32, Appl1	c 910	14	1.0	25	4	US-09-007-678B-41	Sequence 41, Appl
838	14	1.0	22	1	US-08-398-613A-32	Sequence 32, Appl	c 911	14	1.0	25	5	PCr-US95-01185-104	Sequence 104, App
839	14	1.0	22	1	US-08-398-612A-2	Sequence 32, Appl1	912	14	1.0	26	1	US-08-261-206A-67	Sequence 67, Appl
840	14	1.0	22	1	US-08-398-612A-32	Sequence 32, Appl	913	14	1.0	26	1	US-08-476-634-3	Sequence 3, Appl1
841	14	1.0	22	1	US-08-398-611A-2	Sequence 2, Appl1	c 914	14	1.0	26	1	US-08-487-141B-42	Sequence 42, Appl1
842	14	1.0	22	1	US-08-398-611A-32	Sequence 32, Appl	c 915	14	1.0	26	1	US-08-702-344-37	Sequence 37, Appl1
843	14	1.0	22	1	US-08-396-851A-2	Sequence 2, Appl1	916	14	1.0	26	1	US-08-484-518-3	Sequence 3, Appl1
844	14	1.0	22	1	US-08-396-851A-32	Sequence 32, Appl	917	14	1.0	26	1	US-08-943-834-3	Sequence 42, Appl1
845	14	1.0	22	2	US-08-491-334A-2	Sequence 2, Appl1	c 918	14	1.0	26	2	US-08-927-561-42	Sequence 42, Appl
846	14	1.0	22	2	US-08-491-334A-32	Sequence 32, Appl	919	14	1.0	26	2	US-08-726-012B-6	Sequence 6, Appl1
847	14	1.0	22	3	US-09-027-443-2	Sequence 2, Appl1	c 920	14	1.0	26	2	US-08-859-998-832	Sequence 832, App
848	14	1.0	22	3	US-08-804-444A-2	Sequence 2, Appl1	921	14	1.0	26	2	US-08-859-998-1138	Sequence 1138, Ap
849	14	1.0	22	3	US-09-026-985-2	Sequence 2, Appl1	c 922	14	1.0	26	3	US-08-974-180-33	Sequence 33, Appl
850	14	1.0	22	4	US-08-161-674B-13	Sequence 13, Appl	923	14	1.0	26	4	US-09-522-217-46	Sequence 46, Appl
c 851	14	1.0	22	4	US-09-407-818-19	Sequence 19, Appl	c 924	14	1.0	26	4	US-09-134-218-8	Sequence 8, Appl1
c 852	14	1.0	23	1	US-08-343-428-2	Sequence 2, Appl1	925	14	1.0	26	4	US-09-225-928-832	Sequence 832, App
c 853	14	1.0	23	1	US-08-182-530-6	Sequence 6, Appl1	926	14	1.0	26	4	US-09-225-928-1138	Sequence 1138, Ap
854	14	1.0	23	1	US-08-307-619-49	Sequence 49, Appl	c 927	14	1.0	26	5	PCr-US96-09388-42	Sequence 42, Appl
c 855	14	1.0	23	1	US-08-050-058B-6	Sequence 6, Appl1	c 928	14	1.0	27	1	US-08-758-306-48	Sequence 48, Appl
c 856	14	1.0	23	1	US-08-463-587A-6	Sequence 6, Appl1	c 929	14	1.0	27	1	US-08-758-306-450	Sequence 450, App
c 857	14	1.0	23	2	US-08-446-345-20	Sequence 20, Appl	930	14	1.0	27	1	US-08-758-306-742	Sequence 742, App
c 858	14	1.0	23	2	US-08-463-667A-9	Sequence 9, Appl1	931	14	1.0	27	3	US-09-257-799-41	Sequence 41, Appl
c 859	14	1.0	23	2	US-08-441-871-10	Sequence 10, Appl	932	14	1.0	27	3	US-08-998-099-175	Sequence 175, App
860	14	1.0	23	2	US-08-350-260A-95	Sequence 95, Appl	933	14	1.0	27	3	US-08-920-919A-41	Sequence 41, Appl
c 861	14	1.0	23	2	US-08-350-260A-568	Sequence 568, App	c 934	14	1.0	27	4	US-08-485-355B-4	Sequence 4, Appl1
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c 865	14	1.0	23	4	US-08-766-528-24	Sequence 24, Appl	938	14	1.0	27	4	US-08-584-040-3502	Sequence 3502, Ap
866	14	1.0	23	4	US-08-766-528-25	Sequence 25, Appl	939	14	1.0	27	4	US-08-584-040-4707	Sequence 4707, Ap
c 867	14	1.0	23	4	US-09-018-584A-143	Sequence 143, App	c 940	14	1.0	27	4	US-08-584-040-5229	Sequence 5229, Ap
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875	14	1.0	24	1	US-08-586-272-16	Sequence 16, Appl	c 948	14	1.0	28	2	US-08-553-501A-25	Sequence 25, Appl
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c 877	14	1.0	24	2	US-08-529-190B-2	Sequence 2, Appl1	950	14	1.0	28	3	US-08-850-961-33	Sequence 33, Appl
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c 881	14	1.0	24	2	US-08-256-426B-73	Sequence 73, Appl	954	14	1.0	28	3	US-08-846-020A-2	Sequence 2, Appl1
882	14	1.0	24	2	US-08-596-319-21	Sequence 21, Appl	c 955	14	1.0	28	3	US-09-205-231-25	Sequence 25, Appl
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885	14	1.0	24	3	US-09-082-969-16	Sequence 16, Appl	c 958	14	1.0	28	4	US-09-416-557-25	Sequence 25, Appl
886	14	1.0	24	3	US-08-559-205-39	Sequence 39, Appl	959	14	1.0	28	4	US-09-479-776-33	Sequence 33, Appl
887	14	1.0	24	3	US-08-466-368-18	Sequence 18, Appl	960	14	1.0	28	4	US-09-617-871-2	Sequence 2, Appl1
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889	14	1.0	24	4	US-09-327-229-3	Sequence 3, Appl1	962	14	1.0	29	4	US-08-822-999-8	Sequence 8, Appl1
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c 891	14	1.0	24	4	US-09-227-693-5	Sequence 5, Appl1	c 964	14	1.0	30	1	US-08-361-920-74	Sequence 74, Appl
c 892	14	1.0	24	4	US-08-897-126-26	Sequence 26, Appl	c 965	14	1.0	30	1	US-07-714-131C-27	Sequence 27, Appl
893	14	1.0	24	4	US-08-339-214-60	Sequence 60, Appl	966	14	1.0	30	1	US-08-428-370A-12	Sequence 12, Appl
894	14	1.0	24	5	PCr-US95-12608-3	Sequence 3, Appl1	967	14	1.0	30	1	US-08-261-206A-61	Sequence 61, Appl
c 895	14	1.0	25	1	US-08-182-961B-41	Sequence 41, Appl	968	14	1.0	30	1	US-08-220-606B-18	Sequence 18, Appl
c 896	14	1.0	25	1	US-08-297-805-1	Sequence 1, Appl1	969	14	1.0	30	1	US-08-220-606B-21	Sequence 21, Appl
c 897	14	1.0	25	2	US-08-410-654B-48	Sequence 48, Appl	c 970	14	1.0	30	1	US-08-232-015-9	Sequence 9, Appl1
c 898	14	1.0	25	2	US-08-474-851-48	Sequence 48, Appl	c 971	14	1.0	30	1	US-08-232-015-16	Sequence 16, Appl
c 899	14	1.0	25	2	US-08-481-560-48	Sequence 48, Appl	c 972	14	1.0	30	1	US-08-232-015-17	Sequence 17, Appl
c 900	14	1.0	25	2	US-08-743-637B-88	Sequence 88, Appl	973	14	1.0	30	1	US-08-495-743-60	Sequence 60, Appl
c 901	14	1.0	25	3	US-08-526-840B-88	Sequence 88, Appl	c 974	14	1.0	30	1	US-08-412-110-27	Sequence 27, Appl
c 902	14	1.0	25	3	US-08-748-130-29	Sequence 29, Appl	c 975	14	1.0	30	1	US-08-479-939-74	Sequence 74, Appl
c 903	14	1.0	25	3	US-08-961-871-6	Sequence 6, Appl1	c 976	14	1.0	30	1	US-08-442-542-39	Sequence 39, Appl

c 977 14 1.0 30 1 US-08-409-442A-27 Sequence 27, Appl  
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979 14 1.0 30 1 US-08-495-741-60 Sequence 60, Appl  
c 980 14 1.0 30 1 US-08-483-432-74 Sequence 74, Appl  
981 14 1.0 30 1 US-08-538-875-60 Sequence 60, Appl  
c 982 14 1.0 30 1 US-08-461-773-9 Sequence 9, Appl  
c 983 14 1.0 30 2 US-08-469-609A-27 Sequence 27, Appl  
984 14 1.0 30 2 US-08-600-764-12 Sequence 12, Appl  
c 985 14 1.0 30 2 US-08-428-257A-3 Sequence 3, Appl  
986 14 1.0 30 2 US-08-068-729-1 Sequence 1, Appl  
987 14 1.0 30 2 US-08-943-915-21 Sequence 21, Appl  
988 14 1.0 30 3 US-08-594-452-43 Sequence 43, Appl  
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990 14 1.0 30 3 US-09-255-671-1 Sequence 1, Appl  
c 991 14 1.0 30 3 US-08-884-324-22 Sequence 22, Appl  
992 14 1.0 30 3 US-09-129-740-15 Sequence 15, Appl  
c 993 14 1.0 30 3 US-08-765-469-39 Sequence 39, Appl  
994 14 1.0 30 3 US-08-775-414-62 Sequence 62, Appl  
c 995 14 1.0 30 3 US-08-749-522-7 Sequence 7, Appl  
996 14 1.0 30 3 US-08-928-805-4 Sequence 4, Appl  
c 997 14 1.0 30 3 US-09-143-190-27 Sequence 27, Appl  
998 14 1.0 30 3 US-09-258-408-43 Sequence 43, Appl  
999 14 1.0 30 3 US-09-195-666A-40 Sequence 40, Appl  
c1000 14 1.0 30 3 US-09-195-666A-41 Sequence 41, Appl

ALIGNMENTS

RESULT 1  
US-08-859-998-1206/c  
; Sequence 1206, Application US/08859998  
; Patent No. 5994076  
; GENERAL INFORMATION:  
; APPLICANT: Chenchik, Alex  
; APPLICANT: Chenchik, Alex  
; APPLICANT: Bibilashvili, Robert  
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
; TITLE OF INVENTION: EXPRESSION  
; NUMBER OF SEQUENCES: 1375  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 2200 Sand Hill Road, Suite 100  
; CITY: Menlo Park  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94025  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,998  
; FILING DATE: 21-MAY-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Field, Bret E.  
; REGISTRATION NUMBER: 37,620  
; REFERENCE/DOCKET NUMBER: 09096/002001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-322-5070  
; TELEFAX: 415-854-0875  
; INFORMATION FOR SEQ ID NO: 1206:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 28 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA

; FEATURE:  
; OTHER INFORMATION: oligonucleotide primer  
; US-08-859-998-1206  
  
Query Match 2.0%; Score 28; DB 2; Length 28;  
Best Local Similarity 100.0%; Pred. No. 5.8e+02;  
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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Db 28 ATGAAGCACCTTGATCTTTGGTGCTCTG 1  
  
RESULT 2  
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; Sequence 1206, Application US/09225928  
; Patent No. 6352829  
; GENERAL INFORMATION:  
; APPLICANT: Chenchik, Alex  
; APPLICANT: Chenchik, Alex  
; APPLICANT: Bibilashvili, Robert  
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
; TITLE OF INVENTION: EXPRESSION  
; NUMBER OF SEQUENCES: 1375  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 2200 Sand Hill Road, Suite 100  
; CITY: Menlo Park  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94025  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
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; SOFTWARE: FASTSEQ for Windows Version 2.0  
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; APPLICATION NUMBER: US/09/225,928  
; FILING DATE: 05-Jan-1999  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/859,998  
; FILING DATE: 21-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Field, Bret E.  
; REGISTRATION NUMBER: 37,620  
; REFERENCE/DOCKET NUMBER: 09096/002001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-322-5070  
; TELEFAX: 415-854-0875  
; INFORMATION FOR SEQ ID NO: 1206:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 28 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
; FEATURE:  
; OTHER INFORMATION: oligonucleotide primer  
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RESULT 3
US-08-859-998-1205
; Sequence 1205, Application US/08859998
; Patent No. 5994076
; GENERAL INFORMATION:
; APPLICANT: Chenchik, Alex
; APPLICANT: Jokhadze, George
; APPLICANT: Bibilashvili, Robert
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1375
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 2200 Sand Hill Road, Suite 100
; CITY: Menlo Park
; STATE: CA
; COUNTRY: US
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,998
; FILING DATE: 21-MAY-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Field, Bret E.
; REGISTRATION NUMBER: 37,620
; REFERENCE/DOCKET NUMBER: 09096/002001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-322-5070
; TELEFAX: 415-854-0875
; INFORMATION FOR SEQ ID NO: 1205:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; OTHER INFORMATION: oligonucleotide primer
US-08-859-998-1205

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Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4
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; Sequence 1205, Application US/09225928
; Patent No. 6352829
; GENERAL INFORMATION:
; APPLICANT: Chenchik, Alex
; APPLICANT: Jokhadze, George
; APPLICANT: Bibilashvili, Robert
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1375
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 2200 Sand Hill Road, Suite 100
; CITY: Menlo Park
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STATE: CA
COUNTRY: US
ZIP: 94025
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/225,928
FILING DATE: 05-Jan-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/859,998
FILING DATE: 21-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Field, Bret E.
REGISTRATION NUMBER: 37,620
REFERENCE/DOCKET NUMBER: 09096/002001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-322-5070
TELEFAX: 415-854-0875
INFORMATION FOR SEQ ID NO: 1205:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
OTHER INFORMATION: oligonucleotide primer
SEQUENCE DESCRIPTION: SEQ ID NO: 1205:
US-09-225-928-1205

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RESULT 5
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; Sequence 3, Application US/09143212B
; Patent No. 6077672
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia and Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF TRADD EXPRESSION
; FILE REFERENCE: RTS-0005
; CURRENT APPLICATION NUMBER: US/09/143,212B
; CURRENT FILING DATE: 1998-08-28
; NUMBER OF SEQ ID NOS: 87
; SEQ ID NO 3
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-09-143-212-3

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Best Local Similarity 100.0%; Pred. No. 1.1e+04;
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RESULT 6  
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; Sequence 2, Application US/09143212B  
; Patent No. 6077672  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia and Lex M. Cowser  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TRADD EXPRESSION  
; FILE REFERENCE: RTS-0005  
; CURRENT APPLICATION NUMBER: US/09/143,212B  
; CURRENT FILING DATE: 1998-08-28  
; NUMBER OF SEQ ID NOS: 87  
; SEQ ID NO 2  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: PCR Primer  
US-09-143-212-2

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Best Local Similarity 100.0%; Pred. No. 2.9e+04;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 acgaggagcgctgttgagt 20

RESULT 7  
US-08-068-747-2  
; Sequence 2, Application US/08068747  
; Patent No. 5695933  
; GENERAL INFORMATION:  
; APPLICANT: Schalling, Martin  
; APPLICANT: Hudson, Thomas J.  
; APPLICANT: Housman, David E.  
; TITLE OF INVENTION: Direct Determination of Expanded  
; TITLE OF INVENTION: Nucleotide Repeats in the Human Genome  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/068,747  
; FILING DATE: 28-MAY-1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Granahan, Patricia  
; REGISTRATION NUMBER: 32,227  
; REFERENCE/DOCKET NUMBER: MIT-6141  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-861-6240  
; TELEFAX: 617-861-9540  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 30 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "Synthetic"  
US-08-068-747-2

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Best Local Similarity 82.1%; Pred. No. 3.1e+04;  
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Db 3 gccgcgcgcgcgcgcacactgcccag 30

RESULT 8  
US-09-025-580-6/c  
; Sequence 6, Application US/09025580  
; Patent No. 6162613  
; GENERAL INFORMATION:  
; APPLICANT: Su, Michael Shin-San  
; APPLICANT: Fox, Ted  
; APPLICANT: Wilson, Keith Phillip  
; APPLICANT: Germann, Ursula A.  
; TITLE OF INVENTION: Methods For Designing Inhibitors of  
; TITLE OF INVENTION: Serine/Threonine Kinases and Tyrosine Kinase  
; NUMBER OF SEQUENCES: 37  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Neave  
; STREET: 1251 Avenue of the Americas  
; CITY: New York  
; STATE: NY  
; COUNTRY: US  
; ZIP: 10020  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/025,580  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Haley, James F.  
; REGISTRATION NUMBER: 27,794  
; REFERENCE/DOCKET NUMBER: VPI 97-104  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 596-9000  
; TELEFAX: (212) 596-9090  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 28 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
US-09-025-580-6

Query Match 1.4%; Score 19.8; DB 4; Length 28;  
Best Local Similarity 91.3%; Pred. No. 3.4e+04;  
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcacactg 643  
|||||

Db 27 gccgcgcgcgcgcgcacactg 5

RESULT 9  
US-08-863-639A-67  
; Sequence 67, Application US/08863639A  
; Patent No. 5981185  
; GENERAL INFORMATION:  
; APPLICANT: Matson, Robert S.

```
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 67:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-67

Query Match 1.4%; Score 19.4; DB 2; Length 21;
Best Local Similarity 95.2%; Pred. No. 4e+04;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcgcacc 641
Db 1 GCCGCGCGCGCGCGCGCGCC 21

RESULT 10
US-08-863-639A-71/c
; Sequence 71, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
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; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-71

Query Match 1.4%; Score 19.4; DB 2; Length 21;
Best Local Similarity 95.2%; Pred. No. 4e+04;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcgcacc 641
Db 21 GCCGCGCGCGCGCGCGCGCC 1

RESULT 11
US-08-416-214A-11/c
; Sequence 11, Application US/08416214A
; Patent No. 5998596
; GENERAL INFORMATION:
; APPLICANT: Bergan, Raymond; Neckers, Len
; TITLE OF INVENTION: Inhibition Of Protein
; TITLE OF INVENTION: Kinase Activity By Aptameric Action Of
; TITLE OF INVENTION: Oligonucleotides
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/416,214A
; FILING DATE: 04-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Brown, Kathryn M.
; REGISTRATION NUMBER: 34,556
; REFERENCE/DOCKET NUMBER: 2026-4166
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: Nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: Other nucleic acid
; HYPOTHETICAL: Yes
; ANTI-SENSE: No
; US-08-416-214A-11

Query Match 1.4%; Score 19.4; DB 2; Length 21;
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Best Local Similarity 95.2%; Pred. No. 4e+04; Mismatches 0; Gaps 0; Indels 1; Length 24;

Matches 20; Conservative 0; Mismatches 0; Gaps 0; Indels 1; Length 24;

QY 621 gccgcgcgcgcgcgcgcgc 641  
Db 21 GCCGCCGCCGCCGCCGCCGCC 1

## RESULT 12

US-08-570-155-17/c  
; Sequence 17, Application US/08570155

; Patent No. 5962332

; GENERAL INFORMATION:

; APPLICANT: Singer, Robert H.

; APPLICANT: Taneja, Krishan L.

; TITLE OF INVENTION: DETECTION OF TRINUCLEOTIDE REPEATS

; TITLE OF INVENTION: BY IN SITU HYBRIDIZATION

; NUMBER OF SEQUENCES: 17

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: FISH & RICHARDSON P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: Massachusetts

; COUNTRY: U.S.A.

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version

; SOFTWARE: #1.30B

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/570,155

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/399,499

; FILING DATE: 07 March 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/214,823

; FILING DATE: 17 March 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Clark, Paul T.

; REGISTRATION NUMBER: 30,162

; REFERENCE/DOCKET NUMBER: 06353/011001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 542-5070

; TELEFAX: (617) 542-8906

; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 17:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 24 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cdna

US-08-570-155-17

## Query Match

Best Local Similarity 90.9%; Pred. No. 4.1e+04;

Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 620 agccgcgcgcgcgcgcgcgc 641  
Db 24 ANCCGCCGCCGCCGCCGCCGCC 3

## RESULT 13

US-08-374-144-3/c

; Sequence 3, Application US/08374144

; Patent No. 5629147

; GENERAL INFORMATION:

; APPLICANT: Arogenex, Inc.  
; TITLE OF INVENTION: Enriching and Identifying Fetal Cells  
; TITLE OF INVENTION: Maternal Blood For In Situ Hybridization  
; NUMBER OF SEQUENCES: 21  
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Elman Wilf & Fried

; STREET: 20 West Third Street, P.O. Box 703

; CITY: Media

; STATE: PA

; COUNTRY: USA

; ZIP: 19063-8969

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5 inch 720K diskette

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WordPerfect 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/374,144

; FILING DATE:

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Gerry J. Elman

; REGISTRATION NUMBER: 24,404

; REFERENCE/DOCKET NUMBER: M19-085

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 610-892-9580

; TELEFAX: 610-892-9577

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 25 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

US-08-374-144-3

## Query Match

Best Local Similarity 95.2%; Pred. No. 4.1e+04;

Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcgc 641

Db 25 GCCGCCGCCGCCGCCGCCGCC 5

## RESULT 14

US-08-775-164-3/c

; Sequence 3, Application US/08775164

; Patent No. 5766843

; GENERAL INFORMATION:

; APPLICANT: Arogenex, Inc.

; TITLE OF INVENTION: Enriching and Identifying Fetal Cells

; NUMBER OF SEQUENCES: 21

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Elman & Associates

; STREET: 20 West Third Street, P.O. Box 1969

; CITY: Media

; STATE: PA

; COUNTRY: USA

; ZIP: 19063-8969

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5 inch 720K diskette

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WordPerfect 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/775,164

; FILING DATE:

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

NAME: Gerry J. Elman  
REGISTRATION NUMBER: 24,404  
REFERENCE/DOCKET NUMBER: M19-103  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610-892-9580  
TELEFAX: 610-892-9577  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 25 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-775-164-3

Query Match 1.48; Score 19.4; DB 1; Length 25;  
Best Local Similarity 95.2%; Pred. No. 4.1e+04;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 621 gccgccgccgccgccacc 641  
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Db 25 GCCGCCGCCGCCGCCGCC 5

RESULT 15

US-08-775-609-3/C  
Sequence 3, Application US/08775609  
Patent No. 5858649  
GENERAL INFORMATION:  
APPLICANT: Arogenex, Inc.  
TITLE OF INVENTION: Enriching and Identifying Fetal Cells  
NUMBER OF SEQUENCES: 21  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Elman & Associates  
STREET: 20 West Third Street, P.O. Box 1969  
CITY: Media  
STATE: PA  
COUNTRY: USA  
ZIP: 19063-8969  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch 720K diskette  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Wordperfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08775,609  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Gerry J. Elman  
REGISTRATION NUMBER: 24,404  
REFERENCE/DOCKET NUMBER: M19-103  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610-892-9580  
TELEFAX: 610-892-9577  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 25 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-775-609-3

Query Match 1.48; Score 19.4; DB 2; Length 25;  
Best Local Similarity 95.2%; Pred. No. 4.1e+04;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 25 GCCGCCGCCGCCGCCGCC 5  
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Job time: 6693 sec

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GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: August 18, 2002, 18:03:55 ; Search time 205.99 Seconds  
(without alignments)  
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Perfect score: 1435  
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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

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Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

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24: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	ID	Description
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C 2	22	1.5	24 24	ABA04964 Human FD14 PCR pri
C 3	21.8	1.5	28 21	AAAG4342 Forward PCR primer
4	21	1.5	21 22	AAH62242 TNF receptor type
5	21	1.5	21 22	AAH62243 TNF receptor type
6	21	1.5	21 22	AAF97007 Human gene single
7	21	1.5	21 22	AAF97008 Human gene single
C 8	20.6	1.4	29 23	ABA02836 Human alpha-2CAR n
9	20	1.4	20 21	AAZ93432 Forward primer for

20	AAZ20940	Forward primer to
21	AAZ44349	Protein kinase inh
24	AAZ24999	Sense probe to Era
15	AAO55856	Fragile X probe.
16	AAO85271	Probe for Fragile
25	AAO5267	Fragile X chromoso
19	AAZ93434	Primer #1 for huma
25	AAZ93434	Primer #1 for huma
17	AAZ60340	Human NOV 10 probe
22	AAH75780	Target sequence fo
28	AAO33258	Murine Zif(C7)6-Ju
22	AAO60663	Unmethylated CpG d
19	AAV47686	CpG-N motif O-ODN
20	AAV74243	Immunostimulatory
22	AAF99116	Antisense probe to
24	AAZ24998	Human apolipoprote
30	AAO32898	Probe O-CCR-26 for
26	AAH82048	TRADD antisense ol
18	AAZ93438	TRADD antisense ol
21	AAZ93439	TRADD antisense ol
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21	AAZ93441	TRADD antisense ol
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18	AAZ93490	TRADD antisense ol
21	AAZ93491	TRADD antisense ol
18	AAZ93492	TRADD antisense ol
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c 83	18	1.3	18	21	AA293494	TRADD antisense ol	156	16.6	1.2	24	14	AAQ52741	Sequence of probe
c 84	18	1.3	18	21	AA293495	TRADD antisense ol	157	16.6	1.2	24	14	AAQ35499	HIV-2 detection pr
c 85	18	1.3	18	21	AA293496	TRADD antisense ol	158	16.6	1.2	24	14	AAQ89812	Oligonucleotide pr
c 86	18	1.3	18	21	AA293497	TRADD antisense ol	159	16.6	1.2	24	14	AAV36781	Nucleotide sequenc
c 87	18	1.3	18	21	AA293498	TRADD antisense ol	160	16.6	1.2	24	14	AAV36781	Neuroblastoma spec
c 88	18	1.3	18	21	AA293499	TRADD antisense ol	c 161	16.6	1.2	26	14	AAQ52208	CHV gb gene 3' end
c 89	18	1.3	18	21	AA293500	TRADD antisense ol	162	16.6	1.2	29	16	AAQ01443	Polymorphic fragme
c 90	18	1.3	18	21	AA293501	TRADD antisense ol	c 163	16.6	1.2	29	21	AAA04534	Mycobacterium fort
c 91	18	1.3	18	21	AA293502	TRADD antisense ol	c 164	16.6	1.2	30	21	AAQ64546	Herpesvirus expres
c 92	18	1.3	18	21	AA293503	TRADD antisense ol	165	16.6	1.2	30	21	AA261428	PCR primer for DNA
c 93	18	1.3	18	21	AA293504	TRADD antisense ol	c 166	16.4	1.1	20	22	AAQ91298	Human E2F transcri
c 94	18	1.3	18	21	AA293505	TRADD antisense ol	167	16.4	1.1	26	22	AAQ16753	E.coli acetolactat
c 95	18	1.3	18	21	AA293506	TRADD antisense ol	c 168	16.4	1.1	27	19	AAV93906	Human IL-2 recepto
c 96	18	1.3	18	21	AA293507	TRADD antisense ol	169	16.4	1.1	27	19	AAV64059	Adenylate kinase P
c 97	18	1.3	18	21	AA293508	TRADD antisense ol	170	16.4	1.1	27	20	AAQ55593	PCR primer C. Syn
c 98	18	1.3	18	21	AA293509	TRADD antisense ol	171	16.4	1.1	27	20	AAQ31952	Primer M used in t
c 99	18	1.3	18	21	AA293510	TRADD antisense ol	172	16.4	1.1	27	21	AAQ29093	PCR primer for adk
c 100	18	1.3	18	21	AA293511	TRADD antisense ol	173	16.4	1.1	27	22	AAQ57461	3' RACE forward pr
c 101	18	1.3	18	21	AA293512	TRADD antisense ol	c 174	16.4	1.1	27	22	AAQ89679	Plasmodium chitinas
c 102	18	1.3	18	21	AA293513	TRADD antisense ol	175	16.4	1.1	27	22	AAQ16506	PCR primer #1 for
c 103	18	1.3	18	21	AA293514	TRADD antisense ol	176	16.4	1.1	27	24	AAQ18124	Streptococcus dysg
c 104	18	1.3	18	21	AA293515	TRADD antisense ol	c 177	16.4	1.1	28	15	AAQ62767	PCR primer J04 for
c 105	18	1.3	18	21	AA293516	TRADD antisense ol	c 178	16.4	1.1	28	15	AAQ62742	PCR primer J04 for
c 106	18	1.3	18	21	AA293517	TRADD antisense ol	c 179	16.4	1.1	28	20	AAQ55151	C/EBP-beta antisen
c 107	18	1.3	27	19	AA293518	Primer B23 of the	c 180	16.4	1.1	28	21	AAQ20720	Human C/EBP polyu
c 108	17.8	1.2	30	18	AAQ5638	Balanus amphitrite	c 181	16.4	1.1	28	21	AAQ34598	Human adenosine re
c 109	17.8	1.2	30	18	AAQ5638	Rho B 3'-PCR prime	182	16.4	1.1	28	22	AAQ91053	Human inflammatory
c 110	17.6	1.2	27	19	AAV44847	Primer for FCR-I c	c 183	16.4	1.1	29	20	AAQ87779	Human mucin MUC 5A
c 111	17.6	1.2	30	21	AAQ88299	C-alpha-3 loop mut	184	16.4	1.1	29	21	AAQ04411	Polymorphic fragme
c 112	17.4	1.2	25	21	AAQ51455	Human NK2R promote	c 185	16.4	1.1	29	22	AAQ48214	Chronic hepatitis
c 113	17.4	1.2	30	21	AAQ24242	MABL-1 H chain v r	c 186	16.4	1.1	30	12	AAQ13817	Probe for non-rece
c 114	17.4	1.2	30	22	AAQ78138	PCR primer used to	c 187	16.4	1.1	30	19	AAV13917	Oligonucleotide of
c 115	17.4	1.2	30	24	ABA04513	PCR primer A. Syn	c 188	16.4	1.1	30	20	AAQ08737	HCMV/HIV-1 hybrid
c 116	17.2	1.2	22	19	AAV49228	rb gene antisense	c 189	16.4	1.1	30	21	AAQ93999	Antiviral vector p
c 117	17.2	1.2	26	20	AAQ25630	Antisense oligonuc	c 190	16.4	1.1	30	21	AAQ65174	Boxless primer use
c 118	17.2	1.2	26	20	AAQ25108	Antisense oligonuc	c 191	16.4	1.1	30	22	AAQ22549	Kis gene fragment
c 119	17.2	1.2	26	20	AAQ07266	Antisense oligonuc	c 192	16.4	1.1	30	22	AAQ86893	PCR primer for a h
c 120	17.2	1.2	26	20	AAQ16179	Patched transcript	c 193	16.2	1.1	30	22	AAQ78233	PCR primer for CDN
c 121	17.2	1.2	26	21	AAQ27889	Patched antisense	194	16.2	1.1	22	19	AAV48447	Transforming growt
c 122	17.2	1.2	26	21	AAQ30287	Hedgehog gene anti	c 195	16.2	1.1	22	21	AAQ10003	Primer CDPuro-1 fo
c 123	17.2	1.2	26	21	AAQ52271	Human patched gene	c 196	16.2	1.1	22	22	AAQ17116	PCR primer CDPuro-
c 124	17.2	1.2	26	22	AAQ66781	Patched protein ex	c 197	16.2	1.1	23	14	AAQ35500	HIV-2 detection se
c 125	17.2	1.2	26	22	AAQ28510	Antisense oligonuc	c 198	16.2	1.1	23	16	AAQ75358	DNA probe to OKT3
c 126	17.2	1.2	30	17	AAQ14966	SIV gp41 external	c 199	16.2	1.1	23	19	AAV09018	Probe for OKT3 var
c 127	17.2	1.2	30	17	AAQ14970	SIV gp41 external	200	16.2	1.1	24	19	AAV22263	Primer used in pre
c 128	17.2	1.2	30	17	AAQ08155	HTRT sequence-spec	201	16.2	1.1	24	19	AAV22259	Primer used in pre
c 129	17.2	1.2	30	20	AAQ34254	Primer pPV.luc.Fw	c 202	16.2	1.1	26	21	AAQ15025	PCR primer for the
c 130	17	1.2	18	19	AAV16014	PCR primer G-R use	c 203	16.2	1.1	29	21	AAQ60929	Squamous cell carc
c 131	17	1.2	18	21	AAQ05258	PCR primer G-R use	c 204	16.2	1.1	30	14	AAQ51393	Chlamydia capture
c 132	17	1.2	18	21	AAQ3273	Murine Sox3 gene p	205	16.2	1.1	30	19	AAV25986	Human CD33-like pr
c 133	17	1.2	18	22	AAQ95699	Multiple repeated	206	16.2	1.1	30	20	AAQ78867	Human tissue facto
c 134	17	1.2	28	19	AAV08947	PCR primer for Hum	c 207	16.2	1.1	30	20	AAQ77511	Human beta-APP sec
c 135	17	1.2	28	22	AAQ49518	Human GTP-binding	c 208	16.2	1.1	30	21	AAQ38865	Human G-protein co
c 136	17	1.2	29	20	AAQ55042	C/EBP-beta antisen	c 209	16.2	1.1	30	22	AAQ82005	Human wound healin
c 137	17	1.2	29	21	AAQ20611	Human C/EBP polyu	210	16	1.1	30	22	AAQ82480	Antisense oligonuc
c 138	17	1.2	29	21	AAQ34489	Human adenosine re	211	16	1.1	17	19	AAV62481	Antisense oligonuc
c 139	17	1.2	30	19	AAV70993	Primer 5' ERK1-top	212	16	1.1	17	18	AAQ63290	Delta-9 desaturase
c 140	17	1.2	30	20	AAQ55041	C/EBP-beta antisen	213	16	1.1	24	14	AAQ45926	GCN4-1, GCN4 bindi
c 141	17	1.2	30	21	AAQ20610	Human C/EBP polyu	214	16	1.1	24	14	AAQ45927	GCN4-2, GCN4 bindi
c 142	17	1.2	30	21	AAQ34488	Human adenosine re	215	16	1.1	24	14	AAQ45928	GCN4-3, GCN4 bindi
c 143	17	1.2	30	21	AAQ00049	Erk1-top PCR prime	216	16	1.1	24	14	AAQ45929	GCN4-4, GCN4 bindi
c 144	16.8	1.2	22	22	AAQ62100	Astrotactin polymo	c 217	16	1.1	24	18	AAQ99287	upfAR element dime
c 145	16.8	1.2	26	18	AAQ48931	Complementary huma	c 218	16	1.1	24	19	AAV31744	Primer Sonde S112A
c 146	16.8	1.2	28	20	AAQ55043	C/EBP-beta antisen	219	16	1.1	24	19	AAQ04301	upfAR element olig
c 147	16.8	1.2	28	21	AAQ20612	Human C/EBP polyu	c 220	16	1.1	24	20	AAQ04092	Primer Sonde S112A
c 148	16.8	1.2	28	21	AAQ34490	Human adenosine re	c 221	16	1.1	25	21	AAQ29647	Nucleotide sequenc
c 149	16.8	1.2	28	24	AAQ96519	Primer #37 used in	222	16	1.1	25	15	AAQ70390	Horse genomic DNA
c 150	16.8	1.2	29	21	AAQ03838	Polymorphic fragme	223	16	1.1	25	16	AAQ95974	Horse genomic prim
c 151	16.8	1.2	29	23	AAQ171965	CEA forward primer	c 224	16	1.1	26	18	AAQ89104	E. coli serotype 0
c 152	16.8	1.2	30	13	AAQ32897	Human apolipoprote	c 225	16	1.1	26	22	AAQ83557	E. coli 0157:H7 ge
c 153	16.8	1.2	30	17	AAQ14960	Recombinant SIV gp	c 226	16	1.1	26	22	AAQ12206	E. coli 0157:H7 pa
c 154	16.8	1.2	30	17	AAQ09304	Murine anti-Protei	227	16	1.1	26	24	AAQ24659	Human 5-lipoxygena
c 155	16.8	1.2	30	20	AAQ57185	Porcine Oct-4 PCR	c 228	16	1.1	27	18	AAQ72301	Mouse flk-1 VEGF r



c 229	16	1.1	27	18	AAx70893	Human KDR VEGF rec	c 302	15.8	1.1	30	14	AAQ52998	Herpes simplex vir
230	16	1.1	27	20	AAx78764	VZV VP26 PCR prime	c 303	15.8	1.1	30	19	AAV44926	promoter molecule
231	16	1.1	27	24	ABA03338	S chrysomallus act	c 304	15.8	1.1	30	19	AAV43837	probe cdc25C-2 use
232	16	1.1	28	22	AAx84320	Mutagenic PCR prim	c 305	15.8	1.1	30	20	AAZ06311	Oligonucleotide pr
c 233	16	1.1	29	19	AAV34025	P. carinii serine	c 306	15.8	1.1	30	20	AAx83631	Electrophoretic mo
234	16	1.1	29	20	AAZ31039	Primer #2 for Surv	c 307	15.8	1.1	30	21	AAZ46964	Human B5 receptor
235	16	1.1	29	20	AAx05153	3' junction sequen	c 308	15.8	1.1	30	22	AAx11851	Human surfactant p
236	16	1.1	29	21	AAx03825	Polymorphic fragme	c 309	15.8	1.1	30	22	AAx00218	PCR primer, FKHL1
237	16	1.1	29	21	AAx04065	Polymorphic fragme	c 310	15.8	1.1	22	21	AAx62141	A. auriculariformis
c 238	16	1.1	29	22	AAx84319	Mutagenic PCR prim	c 311	15.6	1.1	22	21	AAx36879	Human dysferlin ex
239	16	1.1	30	19	AAV71114	PCR primer used to	c 312	15.6	1.1	22	21	AAx11424	Human dysferlin PC
240	16	1.1	30	20	AAZ30935	Thermus thermophil	c 313	15.6	1.1	22	22	AAH23155	Nitric oxide synth
241	16	1.1	30	20	AAZ08221	HTRT sequence-spec	c 314	15.6	1.1	22	22	AAH23165	Nitric oxide synth
c 242	16	1.1	30	20	AAx81627	PCR primer used to	c 315	15.6	1.1	22	22	AAH23173	Nitric oxide synth
c 243	15.8	1.1	19	20	AAx55052	C/EBP-beta antisen	c 316	15.6	1.1	22	22	AAx92645	Human Nck-2 real-t
c 244	15.8	1.1	19	21	AAx20621	Human C/EBP polynu	c 317	15.6	1.1	23	20	AAZ31504	PCR primer for int
c 245	15.8	1.1	19	21	AAx34499	Human adenosine re	c 318	15.6	1.1	24	21	AAx58023	Human PRO1780 reve
c 246	15.8	1.1	20	17	AAx86501	S-adenosylmethioni	c 319	15.6	1.1	24	21	AAx28486	Sense primer for r
c 247	15.8	1.1	20	18	AAx91100	Bovine lysosomal a	c 320	15.6	1.1	24	21	AAx37269	Human PRO1780 reve
c 248	15.8	1.1	20	19	AAV70031	Rat c-jun protein	c 321	15.6	1.1	24	22	AAI66926	SSP2 cDNA amplifi
c 249	15.8	1.1	20	20	AAx55051	C/EBP-beta antisen	c 322	15.6	1.1	24	22	AAx54403	DNA encoding prote
c 250	15.8	1.1	20	21	AAx20620	Human C/EBP polynu	c 323	15.6	1.1	25	21	AAx98541	Cyclin D1 gene spe
c 251	15.8	1.1	20	21	AAx34498	Human adenosine re	c 324	15.6	1.1	25	22	AAx44031	Neisseria meningit
c 252	15.8	1.1	21	20	AAx55050	C/EBP-beta antisen	c 325	15.6	1.1	25	22	AAx44037	Neisseria meningit
c 253	15.8	1.1	21	21	AAx20619	Human C/EBP polynu	c 326	15.6	1.1	25	22	AAx44052	Neisseria meningit
c 254	15.8	1.1	21	21	AAx34497	Human adenosine re	c 327	15.6	1.1	25	22	AAx11758	Human AAG6 DNA int
c 255	15.8	1.1	21	22	AAx95747	Human gene single	c 328	15.6	1.1	26	19	AAV49956	PCR primer for hum
c 256	15.8	1.1	21	22	AAx55049	C/EBP-beta antisen	c 329	15.6	1.1	26	20	AAx08595	Primer for amplifi
c 257	15.8	1.1	22	21	AAx20618	Human C/EBP polynu	c 330	15.6	1.1	26	21	AAx82696	Human IgA nephropa
c 258	15.8	1.1	22	21	AAx34496	Human adenosine re	c 331	15.6	1.1	26	22	AAx92840	Human ABC1 transcr
c 259	15.8	1.1	23	20	AAx55048	C/EBP-beta antisen	c 332	15.6	1.1	27	14	AAQ37158	Anti-sense primer
c 260	15.8	1.1	23	21	AAx20617	Human C/EBP polynu	c 333	15.6	1.1	27	19	AAV21838	Nuclease resistant
c 261	15.8	1.1	23	21	AAx34495	Human adenosine re	c 334	15.6	1.1	27	20	AAx65354	Interleukin-1 alph
c 262	15.8	1.1	24	20	AAx55047	C/EBP-beta antisen	c 335	15.6	1.1	27	20	AAV08009	primer IL-1alpha f
c 263	15.8	1.1	24	21	AAx20616	Human C/EBP polynu	c 336	15.6	1.1	27	21	AAx09063	3' primer for huma
c 264	15.8	1.1	24	21	AAx34494	Human adenosine re	c 337	15.6	1.1	27	21	AAx49175	PCR primer for SSX
c 265	15.8	1.1	25	17	AAx04447	M. tuberculosis st	c 338	15.6	1.1	27	21	AAx29630	Forward PCR primer
c 266	15.8	1.1	25	20	AAx55046	C/EBP-beta antisen	c 339	15.6	1.1	27	22	AAx62362	PCR primer used to
c 267	15.8	1.1	25	21	AAx20615	Human C/EBP polynu	c 340	15.6	1.1	28	22	AAx07406	BLTR4 primer, to a
c 268	15.8	1.1	25	21	AAx34493	Human adenosine re	c 341	15.6	1.1	29	20	AAx83175	Primer used in con
c 269	15.8	1.1	26	20	AAx55045	C/EBP-beta antisen	c 342	15.6	1.1	30	17	AAx56951	HIV-2 DNA fragmen
c 270	15.8	1.1	26	21	AAx20614	Human C/EBP polynu	c 343	15.6	1.1	30	17	AAx45758	Human granulocyte
c 271	15.8	1.1	26	21	AAx34492	Human adenosine re	c 344	15.6	1.1	30	17	AAx14573	CD11b gene promote
c 272	15.8	1.1	27	19	AAV13385	PCR primer used to	c 345	15.6	1.1	30	17	AAx09304	Murine anti-Protei
c 273	15.8	1.1	27	20	AAx89241	Epo-R DNA amplifi	c 346	15.6	1.1	30	17	AAx37011	Human interleukin-
c 274	15.8	1.1	27	20	AAx55044	C/EBP-beta antisen	c 347	15.6	1.1	30	20	AAx81943	PCR primer used to
c 275	15.8	1.1	27	21	AAx20613	Human C/EBP polynu	c 348	15.6	1.1	30	22	AAx17808	Zea mays embryo sa
c 276	15.8	1.1	27	21	AAx73145	Human PSA amplifi	c 349	15.6	1.1	30	22	AAx14226	Synthetic transcri
c 277	15.8	1.1	27	21	AAx34491	Human adenosine re	c 350	15.6	1.1	30	22	AAx27903	Human NOV21 cDNA P
c 278	15.8	1.1	27	22	AAx44273	Neisseria meningit	c 351	15.4	1.1	17	19	AAV49229	rb gene antisense
c 279	15.8	1.1	27	22	AAx30473	RT-PCR primer F7-R	c 352	15.4	1.1	18	18	AAx63292	Delta-9 desaturase
c 280	15.8	1.1	28	17	AAx15675	Reverse-Frame HCV	c 353	15.4	1.1	18	19	AAV16008	PCR primer D-R use
c 281	15.8	1.1	28	17	AAx08872	Primer GE-9R for H	c 354	15.4	1.1	18	20	AAx33863	Human G-alpha-13 a
c 282	15.8	1.1	28	19	AAx66131	PCR primer GE-9R u	c 355	15.4	1.1	18	21	AAx05252	PCR primer D-R use
c 283	15.8	1.1	28	19	AAx65646	HIV-1 promoter fra	c 356	15.4	1.1	18	21	AAx43267	Murine Sox3 gene p
c 284	15.8	1.1	28	19	AAx56090	HGV primer GE-9R D	c 357	15.4	1.1	19	21	AAx85205	Cyclin H ribozyme
c 285	15.8	1.1	28	19	AAx43106	Primer Bt20 for li	c 358	15.4	1.1	19	22	AAx60367	Cyclin H ribozyme
c 286	15.8	1.1	28	20	AAx16410	PCR primer used to	c 359	15.4	1.1	20	17	AAx32530	Primer for exon 10
c 287	15.8	1.1	28	20	AAx02365	US5856134 Seq ID 4	c 360	15.4	1.1	20	21	AAx35543	Myrtaceae microsat
c 288	15.8	1.1	28	20	AAx82153	Hepatitis G virus	c 361	15.4	1.1	21	21	AAx63851	PCR primer used to
c 289	15.8	1.1	28	24	AAx26314	Human ORG3 cDNA t1	c 362	15.4	1.1	22	14	AAQ37155	Probe to detect ac
c 290	15.8	1.1	29	14	AAQ37735	PCR primer P1 to a	c 363	15.4	1.1	22	20	AAV08006	Probe actin for In
c 291	15.8	1.1	29	17	AAx15736	NC92, 5' primer fo	c 364	15.4	1.1	24	17	AAx34157	Monoclonal antibod
c 292	15.8	1.1	29	19	AAV55497	Flt-3 receptor ago	c 365	15.4	1.1	24	19	AAx09324	Human biallelic po
c 293	15.8	1.1	29	19	AAx44559	Primer 339FOR2 for	c 366	15.4	1.1	24	19	AAx27167	Haemopoietin recep
c 294	15.8	1.1	29	21	AAx68508	Periplakin gene SN	c 367	15.4	1.1	24	20	AAx00050	FGFR PCR antisense
c 295	15.8	1.1	29	21	AAx03920	Polymorphic fragme	c 368	15.4	1.1	24	21	AAx11137	Beta-actin gene sp
c 296	15.8	1.1	29	21	AAx04010	Polymorphic fragme	c 369	15.4	1.1	24	22	AAx24350	Actin PCR anti-sen
c 297	15.8	1.1	29	21	AAx04045	Polymorphic fragme	c 370	15.4	1.1	25	14	AAx40983	Rabbit mono ADP-ri
c 298	15.8	1.1	29	21	AAx04644	Polymorphic fragme	c 371	15.4	1.1	25	15	AAQ72719	dgd operator 01.
c 299	15.8	1.1	29	21	AAx39065	Human secreted pro	c 372	15.4	1.1	25	19	AAV19511	Retroviral DNA bas
c 300	15.8	1.1	29	22	AAH73610	Human WTIP cDNA RA	c 373	15.4	1.1	25	20	AAx63067	Human ADP-ribosylt
c 301	15.8	1.1	30	13	AAQ30908	Oligonucleotide 37	c 374	15.4	1.1	25	21	AAx55331	Neisseria species

c 375	15.4	1.1	25	21	AA255447	Neisseria species	c 448	15.2	1.1	24	21	AA278671	Human PRO705 rever
c 376	15.4	1.1	25	22	AA255565	PCR primer used to	c 449	15.2	1.1	24	22	AAH44303	Human fibronogen 9
c 377	15.4	1.1	26	9	AA281251	Probe 0-CRC-26 to	c 450	15.2	1.1	24	24	AB185878	Capture oligonucle
c 378	15.4	1.1	26	14	AA252962	Herpes simplex vir	c 451	15.2	1.1	24	24	AB185879	Capture oligonucle
c 379	15.4	1.1	26	18	AA292472	PCR primer SEQ ID	c 452	15.2	1.1	24	24	AA166346	Human alpha-galact
c 380	15.4	1.1	26	22	AAH49124	Human ACADM gene a	c 453	15.2	1.1	25	11	AAQ05027	Fragment HVR3 of s
c 381	15.4	1.1	27	14	AAQ43283	Sequence of anti-s	c 454	15.2	1.1	25	18	AA274673	Pig myogenin gene
c 382	15.4	1.1	27	15	AAQ71478	BNDF and NT3 syn	c 455	15.2	1.1	25	19	AA236476	PCR primer MANTIE2
c 383	15.4	1.1	27	17	AA235806	Saci methylase gen	c 456	15.2	1.1	25	20	AA219946	Human apoptosis in
c 384	15.4	1.1	27	18	AA272171	Mouse flk-1 VEGF r	c 457	15.2	1.1	25	20	AA219946	Human apoptosis in
c 385	15.4	1.1	27	19	AA294399	Canine IL-2 recept	c 458	15.2	1.1	25	21	AA275533	PCR primer for apo
c 386	15.4	1.1	27	22	AA221362	Prostate specific	c 459	15.2	1.1	25	21	AA275533	Pea pra2 light-rep
c 387	15.4	1.1	27	22	AA274224	Oligonucleotide de	c 460	15.2	1.1	25	21	AA275533	Pseudomonas sp. WF
c 388	15.4	1.1	27	22	AA271911	PCR primer rpoB-1F	c 461	15.2	1.1	25	22	AA271911	Human vanilloid re
c 389	15.4	1.1	27	22	AA289021	Alzheimer's diseas	c 462	15.2	1.1	25	22	AAH12794	Nucleotide-5'-phos
c 390	15.4	1.1	28	20	AA280331	Yeast MEV1 promote	c 463	15.2	1.1	25	24	AA222854	Myogenin cell mark
c 391	15.4	1.1	28	21	AA261516	Primer used to amp	c 464	15.2	1.1	26	21	AA262220	PCR primer for a h
c 392	15.4	1.1	28	21	AA262475	Wheat thioredoxin	c 465	15.2	1.1	27	22	AA285912	Multiple cloning s
c 393	15.4	1.1	29	18	AA273532	Primer RH124 for b	c 466	15.2	1.1	27	24	ABK16837	Human protein ref
c 394	15.4	1.1	29	18	AA273551	Primer RH124 for b	c 467	15.2	1.1	27	24	ABK16838	Human protein ref
c 395	15.4	1.1	29	20	AA260127	PCR primer used to	c 468	15.2	1.1	28	13	AAQ24832	PCR primer OHRH-19
c 396	15.4	1.1	29	22	AAH44970	HIV Gp41 region sp	c 469	15.2	1.1	28	16	AAQ98483	Cyclin D1 promoter
c 397	15.4	1.1	29	22	AA216759	Mazie acetolactate	c 470	15.2	1.1	28	18	AA267117	Helminth MAF antis
c 398	15.4	1.1	30	13	AA225088	PCR primer for the	c 471	15.2	1.1	28	19	AA244665	Triplex-forming ol
c 399	15.4	1.1	30	14	AA253637	Nucleic acid ligan	c 472	15.2	1.1	28	20	AA235921	PCR primer for gra
c 400	15.4	1.1	30	16	AA233318	KHCV 932 probe P93	c 473	15.2	1.1	28	21	AA263976	PCR primer used to
c 401	15.4	1.1	30	16	AA200997	Human papilloma vi	c 474	15.2	1.1	28	21	AA205914	Group B Streptococ
c 402	15.4	1.1	30	16	AA209875	Primer for amplif	c 475	15.2	1.1	28	21	AA249806	Arabidopsis hydrop
c 403	15.4	1.1	30	17	AA239564	Reverse primer for	c 476	15.2	1.1	28	21	AA249635	R154C primer for s
c 404	15.4	1.1	30	17	AA207676	NGF SELEX clone ng	c 477	15.2	1.1	29	17	AA248095	Human monocyte che
c 405	15.4	1.1	30	18	AA200765	SELEX ligand ngf.d	c 478	15.2	1.1	29	18	AA259859	Antisense primer #
c 406	15.4	1.1	30	18	AA290350	DNA encoding pepti	c 479	15.2	1.1	29	19	AA231143	p85 PCR primer SEQ
c 407	15.4	1.1	30	18	AA273959	HIV-1 gp120 synthe	c 480	15.2	1.1	29	20	AA210217	PCR primer used to
c 408	15.4	1.1	30	19	AA272940	Soybean seed stea	c 481	15.2	1.1	29	20	AA276803	PCR primer for S.
c 409	15.4	1.1	30	19	AA233304	Synthetic HIV-1 gp	c 482	15.2	1.1	29	20	AA291645	Human C-raf hammer
c 410	15.4	1.1	30	19	AA214546	SELEX identified l	c 483	15.2	1.1	29	21	AA240452	Polymorphic fragme
c 411	15.4	1.1	30	20	AA279625	RNA ligand sequenc	c 484	15.2	1.1	29	21	AA240452	Polymorphic fragme
c 412	15.4	1.1	30	21	AA288459	Plasmid pCSA104 T-	c 485	15.2	1.1	29	21	AA240452	Polymorphic fragme
c 413	15.4	1.1	30	21	AA292725	Nerve growth facto	c 486	15.2	1.1	29	21	AA240452	Polymorphic fragme
c 414	15.4	1.1	30	22	AA272088	T-DNA right border	c 487	15.2	1.1	29	21	AA240452	Polymorphic fragme
c 415	15.4	1.1	30	22	AA214554	HPV oligonucleotid	c 488	15.2	1.1	29	21	AA240452	Polymorphic fragme
c 416	15.4	1.1	30	22	AA279242	Cell division cont	c 489	15.2	1.1	29	21	AA240452	PCR primer used to
c 417	15.4	1.1	30	22	AA246315	30mer single stran	c 490	15.2	1.1	29	21	AA240452	Primer-4 for short
c 418	15.4	1.1	30	22	AA246316	30mer single stran	c 491	15.2	1.1	29	22	AA249967	Human inflammatory
c 419	15.4	1.1	30	22	AA246318	30mer single stran	c 492	15.2	1.1	30	16	AA286151	Adrenal adrenodoxi
c 420	15.4	1.1	30	22	AA246319	30mer single stran	c 493	15.2	1.1	30	17	AA245752	Human stem cell fa
c 421	15.4	1.1	30	22	AA244559	Mouse DSS-induced	c 494	15.2	1.1	30	18	AA251156	Homeoprotein regul
c 422	15.2	1.1	30	22	AA206829	Antisense oligonuc	c 495	15.2	1.1	30	19	AA272006	Synthetic pMAW104
c 423	15.2	1.1	30	18	AA201150	Homeobox 7 PCR pri	c 496	15.2	1.1	30	19	AA262178	PRV gI gene PCR pr
c 424	15.2	1.1	30	19	AA253579	Nucleotide sequenc	c 497	15.2	1.1	30	20	AA223307	L. brevis ADH muta
c 425	15.2	1.1	30	19	AA230754	Human endothelial	c 498	15.2	1.1	30	20	AA223309	Primer #21. Synth
c 426	15.2	1.1	30	19	AA230755	Human endothelial	c 499	15.2	1.1	30	20	AA223309	IAP1n internal rep
c 427	15.2	1.1	30	20	AA293598	PCR primer used to	c 500	15.2	1.1	30	21	AA296776	PCR primer for his
c 428	15.2	1.1	30	22	AA245963	Human PARP-3 antis	c 501	15.2	1.1	30	21	AA296788	PCR primer for his
c 429	15.2	1.1	30	22	AA202051	L. monocytogenes l	c 502	15.2	1.1	30	21	AA296788	OmpT protease rela
c 430	15.2	1.1	30	24	AA202250	Human/mouse C/EBP	c 503	15.2	1.1	30	21	AA260827	Beta-cellulin mute
c 431	15.2	1.1	31	10	AA248747	Primer used in det	c 504	15.2	1.1	30	21	AA251550	Maize end gene spe
c 432	15.2	1.1	31	11	AAQ03990	Primer used in det	c 505	15.2	1.1	30	21	AA205729	Linker g3-2 DNA, S
c 433	15.2	1.1	31	16	AA290037	Human SMP30 gene p	c 506	15.2	1.1	30	21	AA290467	NF-kappaB oligonuc
c 434	15.2	1.1	31	18	AA262687	Primer for human s	c 507	15.2	1.1	30	22	AA202069	Invader oligonucle
c 435	15.2	1.1	31	19	AA258376	Primer for mouse t	c 508	15.2	1.1	30	22	AA202069	Human cMET (HGF-re
c 436	15.2	1.1	31	20	AA255135	C/EBP-beta antisen	c 509	15.2	1.1	30	23	AA295161	Otoferlin exon/int
c 437	15.2	1.1	31	20	AA233913	Sense PCR primer u	c 510	15.2	1.1	30	23	AA295161	Otoferlin exon/int
c 438	15.2	1.1	31	21	AA220704	Human C/EBP polynu	c 511	15.2	1.1	30	24	AA203329	S trichomallus act
c 439	15.2	1.1	31	21	AA296618	(C)-primer for sec	c 512	15.2	1.1	30	24	AA286420	Trinucleotide simp
c 440	15.2	1.1	31	21	AA258098	Human PRO2262 hybr	c 513	15.2	1.1	30	24	AA286420	IGFBP2 oligonucleo
c 441	15.2	1.1	31	21	AA234582	Human adenosine re	c 514	15.2	1.1	30	24	AA286420	IGFBP2 oligonucleo
c 442	15.2	1.1	31	22	AA296976	Human gene single	c 515	15.2	1.1	30	24	AA286420	Human C-raf target
c 443	15.2	1.1	31	22	AA258434	Murine MOCILR2 cl	c 516	15.2	1.1	30	24	AA286420	Human Survivin ant
c 444	15.2	1.1	31	23	AA227735	Primer for amplif	c 517	15.2	1.1	30	24	AA286420	Alpha interferon s
c 445	15.2	1.1	31	24	AA203689	Triplex-affinity D	c 518	15.2	1.1	30	24	AA286420	Alpha interferon s
c 446	15.2	1.1	31	24	AA233985	Human PRO705 PCR r	c 519	15.2	1.1	30	24	AA286420	Antisense inhibito
c 447	15.2	1.1	31	24	AA200301	LacZ specific PCR	c 520	15.2	1.1	30	24	AA286420	S. noursei PKS-enc

c 521	15	1.0	23	13	AAQ28242	Primer MCHC2. Syn	594	15	1.0	30	18	AA46212	Forward primer for
c 522	15	1.0	23	17	AAT29419	Immunoglobulin g1	c 595	15	1.0	30	19	AAV21546	Oligonucleotide pr
523	15	1.0	23	20	AAQ5619	Plasmid pPori1 cons	c 596	15	1.0	30	19	AAV09813	PCR primer for the
524	15	1.0	23	21	AA415108	PCR primer used to	c 597	15	1.0	30	19	AAV03640	Heavy chain primer
525	15	1.0	23	21	AA40024	PCR primer for F1e	c 598	15	1.0	30	20	AAZ07618	HCV NS1/E region a
c 526	15	1.0	23	22	AA86028	Oligonucleotide #4	c 599	15	1.0	30	20	AAZ10218	PCR primer used to
527	15	1.0	24	15	AAQ57329	Enzymatic RNA mole	c 600	15	1.0	30	20	AAZ06330	CD44 V3c-RP-BamH1
528	15	1.0	24	20	AAQ19912	Caspase activated	c 601	15	1.0	30	20	AAZ55066	C/EBP-beta antisense
c 529	15	1.0	24	22	AA512811	Human VEGF-A rever	c 602	15	1.0	30	20	AAZ26763	PCR primer J1(E2)3
c 530	15	1.0	24	22	AAH75537	Human zinc-finger	c 603	15	1.0	30	20	AAZ16901	Primer #12 for amp
531	15	1.0	24	22	AAH75406	Codon-optimised HP	c 604	15	1.0	30	20	AAZ00428	Hepatitis C virus
c 532	15	1.0	24	24	AA518863	Growth hormone 1 g	c 605	15	1.0	30	20	AAV79562	Anti-Prp antibody
533	15	1.0	24	24	AB185570	Capture oligonucle	c 606	15	1.0	30	20	AAV64106	HSV-2 gH gene PCR
c 534	15	1.0	24	24	AB185571	Capture oligonucle	c 607	15	1.0	30	21	AAZ20635	Human C/EBP polynu
c 535	15	1.0	25	14	AAQ40394	Sequence of PCR pr	608	15	1.0	30	21	AAA37970	PCR primer E used
536	15	1.0	25	14	AAQ40395	Sequence of PCR pr	c 609	15	1.0	30	21	AAA34513	Human adenosine re
c 537	15	1.0	25	16	AAQ93023	Pre-invasive human	c 610	15	1.0	30	21	AAZ50970	A. halophila PCR p
538	15	1.0	25	17	AAT28881	Primer #2 for Kell	c 611	15	1.0	30	21	AAZ50970	Heavy chain fd M13
539	15	1.0	25	19	AAV27959	Mouse beta-interfe	c 612	15	1.0	30	21	AAZ57871	H2SB10 hybridoma h
540	15	1.0	25	21	AAC95576	HLA DQB gene PCR p	c 613	15	1.0	30	22	AA167113	Anti-Prp antibody
541	15	1.0	25	21	AAC95578	HLA DQB gene PCR p	c 614	15	1.0	30	22	AAD20941	Chlamydia pneumoni
c 542	15	1.0	25	21	AAC95607	HLA DQB gene PCR p	c 615	15	1.0	30	22	AA511344	Mouse antibody C h
c 543	15	1.0	25	22	AAH21326	Human MDR-1 allele	c 616	15	1.0	30	22	AAAF60870	Human TAA R11 asso
c 544	15	1.0	26	21	AAZ59792	Human Smad3 quanti	617	15	1.0	30	22	AB197673	Endogenous human G
c 545	15	1.0	26	22	AAH73683	SM33 glucose isome	c 618	15	1.0	30	23	ABA03809	Lambda ZAP II vect
c 546	15	1.0	27	15	AAQ67191	Gamma1 gene CH1 re	c 619	14.8	1.0	18	15	AAQ71147	Merlin exon 14 pri
c 547	15	1.0	27	15	AAQ73072	C-reactive protein	c 620	14.8	1.0	18	20	AAZ55053	C/EBP-beta antisense
c 548	15	1.0	27	17	AAT16184	Murine Gamma-1 gen	c 621	14.8	1.0	18	21	AAZ20622	Human C/EBP polynu
c 549	15	1.0	27	17	AAT16188	Anti-RSV F protein	c 622	14.8	1.0	18	21	AAA34500	Human adenosine re
c 550	15	1.0	27	18	AAT65011	Anti-erbB2 antibod	623	14.8	1.0	18	21	AAZ65510	Immunosuppressant
551	15	1.0	27	19	AAV96829	Potato citrate syn	624	14.8	1.0	19	16	AAQ95604	Primer A (Group 5,
552	15	1.0	27	20	AAZ08907	Human PECAM-1 anti	c 625	14.8	1.0	19	18	AAT76248	Human IL6 receptor
c 553	15	1.0	27	21	AAC67789	PCR primer for hum	c 626	14.8	1.0	19	20	AAZ54038	Human IL-6 recepto
c 554	15	1.0	27	21	AAZ86939	PCR primer for hum	c 627	14.8	1.0	19	21	AAAF19604	Human IL6 receptor
c 555	15	1.0	27	22	AAZ12543	Thujia plicata tp4	c 628	14.8	1.0	19	21	AAA33482	Low adenosine anti
c 556	15	1.0	27	24	ABK17316	Monoclonal antibod	c 629	14.8	1.0	19	22	AA165647	Primer for studyin
c 557	15	1.0	27	24	ABK17328	Mutant MAB phospho	c 630	14.8	1.0	19	22	AA165648	Primer for studyin
558	15	1.0	28	14	AAQ52949	Herpes simplex vir	631	14.8	1.0	20	15	AAQ62025	K-ras modulating s
c 559	15	1.0	28	18	AAT90109	Ha-ras oncogene DN	632	14.8	1.0	20	16	AAQ79844	Mutant Ki-ras 5'-U
560	15	1.0	28	19	AAV10016	Ligation assay oli	633	14.8	1.0	20	17	AAT11653	Herpes simplex vir
561	15	1.0	28	20	AAZ55140	C/EBP-beta antisense	c 634	14.8	1.0	20	20	AAZ01523	PCR primer used to
562	15	1.0	28	21	AAZ07079	Human C/EBP polynu	635	14.8	1.0	20	20	AAZ37774	Staphylococcus sp.
563	15	1.0	28	21	AAZ34587	Human adenosine re	636	14.8	1.0	20	20	AAZ56984	Ras gene modulatin
564	15	1.0	28	21	AAZ4485	Cartilage-associat	637	14.8	1.0	20	20	AAZ21620	Human Ki-ras speci
c 565	15	1.0	28	22	AAH42990	PCR primer for hum	638	14.8	1.0	20	20	AAV84024	Antisense oligonuc
566	15	1.0	28	22	AAH42993	PCR primer for hum	639	14.8	1.0	20	21	AAZ95858	Human Ki-ras antis
c 567	15	1.0	28	22	AAH22079	2H7 mouse monoclon	c 640	14.8	1.0	20	21	AAZ89066	Human nibrin PCR p
c 568	15	1.0	29	17	AAT42344	Human 26S proteaso	641	14.8	1.0	20	21	AAZ65515	Immunosuppressant
569	15	1.0	29	19	AAV58764	Human secreted pro	642	14.8	1.0	20	21	AAZ44201	Murine cerebral ne
570	15	1.0	29	19	AAV10020	Ligation assay oli	c 643	14.8	1.0	20	21	AAZ34998	Nijmegen breakage
571	15	1.0	29	19	AAV09293	Clone AS167.3 olig	c 644	14.8	1.0	20	22	AA510521	Human caspase 3 an
572	15	1.0	29	20	AAZ19935	Human apoptosis in	c 645	14.8	1.0	20	22	AAD09639	Human PKA C-alpha
c 573	15	1.0	29	20	AAZ89625	Human secreted pro	c 646	14.8	1.0	20	22	AAD09640	Human PKA C-alpha
574	15	1.0	29	20	AAZ87233	Human apoptosis in	647	14.8	1.0	20	22	AAZ82449	Human Map4 promote
c 575	15	1.0	29	21	AAZ5519	PCR primer for apo	c 648	14.8	1.0	20	24	AAZ26612	Reverse RT-PCR pri
576	15	1.0	29	21	AAZ49043	Oligonucleotide Co	c 649	14.8	1.0	21	14	AAQ41618	TGF-beta2 sense st
c 577	15	1.0	29	22	AA166612	Human leukotriene	650	14.8	1.0	21	14	AAQ41619	TGF-beta2 antisense
c 578	15	1.0	29	22	AA166614	Rat leukotriene B4	c 651	14.8	1.0	21	22	AA165831	PCR primer for cDN
c 579	15	1.0	29	24	AA59340	Human secreted pro	652	14.8	1.0	21	22	AAZ95700	Human gene single
c 580	15	1.0	29	24	ABA91009	Biotinylated oligo	653	14.8	1.0	21	22	AAZ97319	Human gene single
581	15	1.0	30	14	AAQ53397	F9 cell RNA finger	c 654	14.8	1.0	22	16	AAQ91741	Oligonucleotide 74
c 582	15	1.0	30	14	AAQ48843	M13TMD3 mutated fr	c 655	14.8	1.0	22	18	AAT79261	Rat beta 2 integri
c 583	15	1.0	30	14	AAQ48848	M13TMD7 mutated fr	c 656	14.8	1.0	22	19	AAV63811	Rat alpha-d oligon
c 584	15	1.0	30	15	AAQ62642	Porphyrin antibody	c 657	14.8	1.0	22	19	AAV35278	Rat beta-integrin
c 585	15	1.0	30	15	AAQ73656	PCR primer for HSV	c 658	14.8	1.0	22	19	AAV31580	Rat alpha d cDNA c
c 586	15	1.0	30	16	AAQ91005	Primer AB-41 for t	c 659	14.8	1.0	22	20	AAV08472	Primer for rat alp
c 587	15	1.0	30	16	AAT10212	Deamidating antibo	c 660	14.8	1.0	22	21	AAA60056	Rat alpha_d RACE p
c 588	15	1.0	30	16	AAQ79796	Hepatitis C virus	c 661	14.8	1.0	22	22	AA514600	Human NGFR-GPCR qu
c 589	15	1.0	30	16	AAQ92601	Thermus thermophil	c 662	14.8	1.0	23	21	AAA99238	Human phospholipid
c 590	15	1.0	30	16	AAQ92584	Thermus thermophil	c 663	14.8	1.0	24	14	AAQ45926	GCNA-1, GCNA bindi
c 591	15	1.0	30	17	AAT47864	Heavy chain 3' pri	c 664	14.8	1.0	24	18	AAT80001	Primer used in iso
c 592	15	1.0	30	17	AAT72548	Primer MigGI for a	665	14.8	1.0	24	18	AAV04751	X25 cDNA exon 4 am
c 593	15	1.0	30	18	AAT47737	Anti-CD19 antibody	666	14.8	1.0	24	18	AAAT97310	Human Fas signal s



c 813	14.6	1.0	24	16	AAQ87070	mRNA to cDNA trans	c 886	14.6	1.0	28	19	AAV32759	Human interferon-a
c 814	14.6	1.0	24	18	AAAT79017	Human hypoxanthine	c 887	14.6	1.0	28	20	AAx81738	Reverse PCR primer
c 815	14.6	1.0	24	18	AAAT76285	Human neutrophil o	c 888	14.6	1.0	28	20	AAx32522	Reverse primer for
c 816	14.6	1.0	24	19	AA19291	H. insolens Cellul	c 889	14.6	1.0	28	21	AA298436	Human betal-adreno
c 817	14.6	1.0	24	20	AAZ28077	Human KS antigen (	c 890	14.6	1.0	28	21	AA291673	PCR primer for bar
c 818	14.6	1.0	24	20	AAZ30096	Forward PCR primer	c 891	14.6	1.0	28	21	AAZ45486	Reverse PCR primer
c 819	14.6	1.0	24	20	AAx54080	Neutrophil oxidase	c 892	14.6	1.0	28	21	AAZ37385	PCR primer for bar
c 820	14.6	1.0	24	20	AAZ23226	A. thaliana EL2 ge	c 893	14.6	1.0	28	22	AA544039	Neisseria meningit
c 821	14.6	1.0	24	21	AAAF19646	Human neutrophil o	c 894	14.6	1.0	28	22	AAH23963	Tumour antigen 17-
c 822	14.6	1.0	24	21	AAAF96665	PCR primer used to	c 895	14.6	1.0	28	22	AAH28165	Streptomyces hygro
c 823	14.6	1.0	24	21	AAAL12381	Human PRV-1 PCR pr	c 896	14.6	1.0	28	22	AAc922228	Streptomyces hygro
c 824	14.6	1.0	24	21	AAAL12382	Human PRV-1 PCR pr	c 897	14.6	1.0	28	22	AAc88786	Bar gene PCR prime
c 825	14.6	1.0	24	21	AAAL33524	Low adenosine anti	c 898	14.6	1.0	28	22	AAc88799	Bar gene PCR prime
c 826	14.6	1.0	24	21	AAZ98444	Human betal-adreno	c 899	14.6	1.0	28	23	AA514924	Bar gene reverse p
c 827	14.6	1.0	24	21	AAZ90946	cDNA synthesis 3'	c 900	14.6	1.0	29	13	AAQ22591	External guide seq
c 828	14.6	1.0	24	21	AAZ90974	cDNA synthesis 3'	c 901	14.6	1.0	29	15	AAQ65054	Antisense oligonuc
c 829	14.6	1.0	24	22	AAH45882	Human DnaJ protein	c 902	14.6	1.0	29	15	AAQ70426	MnSOD N-terminal p
c 830	14.6	1.0	24	22	AAAF61561	Human PRV-1 DNA se	c 903	14.6	1.0	29	16	AAQ82802	Primer used for am
c 831	14.6	1.0	24	22	AAAF61562	Human PRV-1 DNA an	c 904	14.6	1.0	29	16	AAQ91890	B.catarhalis CD e
c 832	14.6	1.0	24	22	AAAF62315	Human cyclic nucle	c 905	14.6	1.0	29	16	AAQ96216	Human bone morphog
c 833	14.6	1.0	24	22	AAAF58383	Murine Fc domain p	c 906	14.6	1.0	29	17	AA742916	Primer 8201RN, amp
c 834	14.6	1.0	24	22	AAAF27745	Maize Ms*5126 codi	c 907	14.6	1.0	29	18	AA790391	Bone morphogenetic
c 835	14.6	1.0	24	24	AB188618	Capture oligonucle	c 908	14.6	1.0	29	19	AAV47151	Antisense oligonuc
c 836	14.6	1.0	24	24	AB188619	Capture oligonucle	c 909	14.6	1.0	29	20	AAx53528	Human adenosine A1
c 837	14.6	1.0	24	24	AAAD22451	Human wild type C3	c 910	14.6	1.0	29	20	AAx32246	Primer for amplify
c 838	14.6	1.0	25	16	AAQ84641	5' UTR oligo probe	c 911	14.6	1.0	29	20	AAx18662	Human p53 gene PCR
c 839	14.6	1.0	25	16	AAQ84642	Reverse complement	c 912	14.6	1.0	29	21	AAAF19093	Human adenosine A1
c 840	14.6	1.0	25	16	AAQ99117	CD59 oligo 5 -- 5'	c 913	14.6	1.0	29	21	AAx76240	E. coli glyU tRNA
c 841	14.6	1.0	25	16	AAQ99117	Presenilin-2 alter	c 914	14.6	1.0	29	21	AAx89750	Ra2 sequence PCR
c 842	14.6	1.0	25	18	AAAT59585	Duck hepatitis B v	c 915	14.6	1.0	29	21	AAA61221	PCR primer 163 use
c 843	14.6	1.0	25	19	AAV29162	Nucleotide sequenc	c 916	14.6	1.0	29	21	AAx32971	Low adenosine anti
c 844	14.6	1.0	25	20	AAZ32305	S. pneumoniae xant	c 917	14.6	1.0	29	21	AAA08104	Hepatitis type C v
c 845	14.6	1.0	25	20	AAx35511	PCR primer for xan	c 918	14.6	1.0	29	21	AA298434	Human betal-adreno
c 846	14.6	1.0	25	20	AAx40772	Oligonucleotide us	c 919	14.6	1.0	29	21	AAx03330	Human adenosine A1
c 847	14.6	1.0	25	21	AAc95611	HLA DQB gene PCR p	c 920	14.6	1.0	29	21	AAx04161	Polymorphic fragme
c 848	14.6	1.0	25	21	AAZ98442	Human betal-adreno	c 921	14.6	1.0	29	21	AAA04469	Polymorphic fragme
c 849	14.6	1.0	25	22	AAH23966	Tumour antigen 17-	c 922	14.6	1.0	29	22	AAAD18328	Human BMP-12 ampli
c 850	14.6	1.0	25	22	AAH38907	SNP specific SNPE	c 923	14.6	1.0	29	22	AAAD19527	A. thaliana L-gald
c 851	14.6	1.0	25	22	AAAD04318	Dog leukocyte inte	c 924	14.6	1.0	29	22	AA543962	Neisseria meningit
c 852	14.6	1.0	25	24	AA19124	Human myc PCR prim	c 925	14.6	1.0	29	22	AA543973	Neisseria meningit
c 853	14.6	1.0	25	24	ABA03407	Sindbis virus muta	c 926	14.6	1.0	29	22	AAH25906	Human breast cance
c 854	14.6	1.0	26	18	AAAT90298	5' PCR primer 1 fo	c 927	14.6	1.0	29	22	AAH29728	Human alpha1,2-man
c 855	14.6	1.0	26	19	AAV27030	Super heat resista	c 928	14.6	1.0	29	22	AAAF29733	Human alpha1,2-man
c 856	14.6	1.0	26	19	AAAT96318	Telomeric nucleic	c 929	14.6	1.0	29	22	AAAF16760	Mazie acetolactate
c 857	14.6	1.0	26	20	AAZ12444	PCR primer used to	c 930	14.6	1.0	29	23	ABA95405	Thermus thermophil
c 858	14.6	1.0	26	20	AAx55136	C/EBP-beta antisen	c 931	14.6	1.0	30	11	AAQ06521	Probe/primer TB-10
c 859	14.6	1.0	26	21	AAAF20705	Human C/EBP polyu	c 932	14.6	1.0	30	13	AAQ20706	Immunostimulatory
c 860	14.6	1.0	26	21	AAA56605	Tobacco mosaic vir	c 933	14.6	1.0	30	14	AAQ40848	DNA sequence used
c 861	14.6	1.0	26	21	AAx34583	Human adenosine re	c 934	14.6	1.0	30	14	AAQ51978	B-cell mRNA ribozy
c 862	14.6	1.0	26	21	AAZ98440	Human betal-adreno	c 935	14.6	1.0	30	15	AAQ65047	Antisense oligonuc
c 863	14.6	1.0	26	21	AAZ65190	Primer amplifying	c 936	14.6	1.0	30	15	AAQ65055	Antisense oligonuc
c 864	14.6	1.0	26	21	AAZ35127	Tobacco mosaic vir	c 937	14.6	1.0	30	15	AAQ66517	E. coli reca promo
c 865	14.6	1.0	26	22	ABA82552	Zmax1 gene region	c 938	14.6	1.0	30	15	AAQ67400	Huntingtin DNA pri
c 866	14.6	1.0	26	22	AAAD18453	T. vulgaris (fru)	c 939	14.6	1.0	30	16	AAQ76100	Mycobacterium tube
c 867	14.6	1.0	26	22	AAAF4347	Human PRO1383 forw	c 940	14.6	1.0	30	17	AAAT4585	Alr2/2 PCR primer
c 868	14.6	1.0	26	22	AAH47401	Tvu DNA polymerase	c 941	14.6	1.0	30	17	AAAT29967	Probe for 65 kd an
c 869	14.6	1.0	26	23	AB197664	Endogenous human G	c 942	14.6	1.0	30	17	AAAT17814	Primer #1 for secr
c 870	14.6	1.0	26	24	AA169456	Human tumour-assoc	c 943	14.6	1.0	30	17	AAAT51724	3' primer for chlo
c 871	14.6	1.0	27	16	AAQ75092	SP6 promoter used	c 944	14.6	1.0	30	17	AAAT39745	Chloramphenicol ac
c 872	14.6	1.0	27	18	AAH74305	Mouse flt-1 VEGF r	c 945	14.6	1.0	30	18	AAAT97927	PCR primer 2 used
c 873	14.6	1.0	27	18	AAx74090	Mouse flt-1 VEGF r	c 946	14.6	1.0	30	18	AAAT74301	Glycosylated linke
c 874	14.6	1.0	27	18	AAV02417	Bovine pituitary d	c 947	14.6	1.0	30	18	AAAT90507	Glycosylated linke
c 875	14.6	1.0	27	19	AAV98656	Human EGF-R hamme	c 948	14.6	1.0	30	19	AAV47150	Antisense oligonuc
c 876	14.6	1.0	27	19	AAV98757	Human EGF-R hamme	c 949	14.6	1.0	30	19	AAV47126	Antisense oligonuc
c 877	14.6	1.0	27	19	AAV64596	Human native inter	c 950	14.6	1.0	30	19	AAV35339	Reca gene upper PC
c 878	14.6	1.0	27	20	AAx75093	Primer S82 for Iso	c 951	14.6	1.0	30	19	AAV42193	Antisense PCR prim
c 879	14.6	1.0	27	20	AAx15522	PCR primer FC used	c 952	14.6	1.0	30	19	AAV11822	Streptomyces sp. 3
c 880	14.6	1.0	27	20	AAH81247	Bovine pituitary-d	c 953	14.6	1.0	30	19	AAV25981	Human CD33-like pr
c 881	14.6	1.0	27	21	AAx96331	PCR primer for cDN	c 954	14.6	1.0	30	19	AAV05830	3' primer flanking
c 882	14.6	1.0	27	21	AAZ98438	Human betal-adreno	c 955	14.6	1.0	30	20	AAZ08171	HTRT sequence-spec
c 883	14.6	1.0	27	22	AAAF81434	PCR primer GSPl fo	c 956	14.6	1.0	30	20	AAZ08191	HTRT sequence-spec
c 884	14.6	1.0	28	16	AAQ82919	bar gene reverse p	c 957	14.6	1.0	30	20	AAZ08193	HTRT sequence-spec
c 885	14.6	1.0	28	17	AAAT07270	Primer for amplify	c 958	14.6	1.0	30	20	AAZ08197	HTRT sequence-spec

```
c 959 14.6 1.0 30 20 AA708198 HTRT sequence-spec
960 14.6 1.0 30 20 AA220248 Raffinose synthase
961 14.6 1.0 30 20 AAX53527 Human adenosine A1
962 14.6 1.0 30 20 AAX53503 Human adenosine A1
963 14.6 1.0 30 20 AAX27688 Internal repeat ol
964 14.6 1.0 30 21 AAF19068 Human adenosine A1
965 14.6 1.0 30 21 AAF19092 Human adenosine A1
966 14.6 1.0 30 21 AAX30583 Human G protein-co
967 14.6 1.0 30 21 AAA12702 Primer for bifunct
968 14.6 1.0 30 21 AAA32946 Low adenosine anti
969 14.6 1.0 30 21 AAX32970 Low adenosine anti
970 14.6 1.0 30 21 AAX82971 Human WCM7 PCR pri
971 14.6 1.0 30 21 AA299604 5' PCR primer used
972 14.6 1.0 30 21 AAX98432 Human betal-adreno
973 14.6 1.0 30 21 AAA05776 Streptavidin displ
974 14.6 1.0 30 21 AAX03305 Human adenosine A1
975 14.6 1.0 30 21 AAX03329 Human adenosine A1
976 14.6 1.0 30 21 AA255760 TGMV AL2 gene (Tta
977 14.6 1.0 30 21 AAX35116 Human constant dom
978 14.6 1.0 30 22 AAH48799 Bovine TSH primer
979 14.6 1.0 30 22 AAS11195 P. aeruginosa gene
980 14.6 1.0 30 22 AAH48057 PCR primer #3. Ho
981 14.6 1.0 30 22 AAH84150 Human cell death p
982 14.6 1.0 30 22 AAL10035 Mouse Nope (neighb
983 14.6 1.0 30 22 AAX39086 SNP specific lower
984 14.6 1.0 30 22 AAF89144 Site-1 protease fu
985 14.6 1.0 30 22 AAF30742 Human psk-1 gene s
986 14.6 1.0 30 22 AAF30754 Human psk-1, psk-2
987 14.6 1.0 30 22 AAF81695 Herpes simplex vir
988 14.6 1.0 30 22 AAF77021 Part of bovine der
989 14.6 1.0 30 22 AAF32454 Pseudomonas aerugi
990 14.6 1.0 30 22 AAF59095 Rat MLP PCR primer
991 14.6 1.0 30 22 AAF28773 HIV detection prob
992 14.6 1.0 30 22 AAF67632 PCR primer RHLR-C
993 14.6 1.0 30 22 AAF61717 Human TSHR associa
994 14.6 1.0 30 22 AAH47183 Nucleotide sequenc
995 14.6 1.0 30 23 AAS95159 Otoferlin exon/int
996 14.6 1.0 30 23 AAS95184 Otoferlin exon/int
997 14.6 1.0 30 23 AAS95201 Otoferlin exon/int
998 14.6 1.0 30 23 AB197620 Endogenous human G
999 14.6 1.0 30 24 AA168071 2-methyl-epothilon
c1000 14.6 1.0 30 24 AA168081 6-desmethyl-epothi
```

## ALIGNMENTS

```
RESULT 1
AAZ93433/c
ID AAZ93433 standard; DNA; 22 BP.
XX AC AAZ93433;
XX DT 24-JUL-2000 (first entry)
XX DE Reverse primer for amplifying TRADD gene.
XX KW TRADD; TNF; tumour necrosis factor; NF-kappa-B; apoptosis;
XX KW programmed cell death; antisense; inhibition; treatment; therapy;
XX KW septic shock; inflammation; cancer; antiinflammatory; PCR;
XX KW polymerase chain reaction; primer; ss.
XX OS Synthetic.
XX PN W0200012527-A1.
XX PD 09-MAR-2000.
XX PF 25-AUG-1999; 99WO-US19614.
XX PR 28-AUG-1998; 98US-0143212.
XX PA (ISIS-) ISIS PHARM INC.

RESULT 2
ABA04964/c
ID ABA04964 standard; DNA; 24 BP.
XX AC ABA04964;
XX DT 01-MAR-2002 (first entry)
XX DE Human FD14 PCR primer #1.
XX KW Human; FDL4; tumour; embryo maldevelopment; tissue; cytostatic;
XX KW immunodeficiency disease; immune disease; immunomodulatory; gene therapy;
XX KW PCR primer; ss.
XX OS Homo sapiens.
XX PN CN1312286-A.
XX PD 12-SEP-2001.
XX PF 07-MAR-2000; 2000CN-0111937.
XX PR 07-MAR-2000; 2000CN-0111937.
XX PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.
XX PI Mao Y, Xie Y;
XX DR WPI; 2002-018504/03.

Query Match 1.5%; Score 22; DB 21; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.8e+05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 494 atgaagaactggctgagctgga 515
DB 22 ATGAAGAACTGGCTGAGCTGGA 1
|||||
|||||

AAZ93433:
c 959 14.6 1.0 30 20 AA708198 HTRT sequence-spec
960 14.6 1.0 30 20 AA220248 Raffinose synthase
961 14.6 1.0 30 20 AAX53527 Human adenosine A1
962 14.6 1.0 30 20 AAX53503 Human adenosine A1
963 14.6 1.0 30 20 AAX27688 Internal repeat ol
964 14.6 1.0 30 21 AAF19068 Human adenosine A1
965 14.6 1.0 30 21 AAF19092 Human adenosine A1
966 14.6 1.0 30 21 AAX30583 Human G protein-co
967 14.6 1.0 30 21 AAA12702 Primer for bifunct
968 14.6 1.0 30 21 AAA32946 Low adenosine anti
969 14.6 1.0 30 21 AAX32970 Low adenosine anti
970 14.6 1.0 30 21 AAX82971 Human WCM7 PCR pri
971 14.6 1.0 30 21 AA299604 5' PCR primer used
972 14.6 1.0 30 21 AAX98432 Human betal-adreno
973 14.6 1.0 30 21 AAA05776 Streptavidin displ
974 14.6 1.0 30 21 AAX03305 Human adenosine A1
975 14.6 1.0 30 21 AAX03329 Human adenosine A1
976 14.6 1.0 30 21 AA255760 TGMV AL2 gene (Tta
977 14.6 1.0 30 21 AAX35116 Human constant dom
978 14.6 1.0 30 22 AAH48799 Bovine TSH primer
979 14.6 1.0 30 22 AAS11195 P. aeruginosa gene
980 14.6 1.0 30 22 AAH48057 PCR primer #3. Ho
981 14.6 1.0 30 22 AAH84150 Human cell death p
982 14.6 1.0 30 22 AAL10035 Mouse Nope (neighb
983 14.6 1.0 30 22 AAX39086 SNP specific lower
984 14.6 1.0 30 22 AAF89144 Site-1 protease fu
985 14.6 1.0 30 22 AAF30742 Human psk-1 gene s
986 14.6 1.0 30 22 AAF30754 Human psk-1, psk-2
987 14.6 1.0 30 22 AAF81695 Herpes simplex vir
988 14.6 1.0 30 22 AAF77021 Part of bovine der
989 14.6 1.0 30 22 AAF32454 Pseudomonas aerugi
990 14.6 1.0 30 22 AAF59095 Rat MLP PCR primer
991 14.6 1.0 30 22 AAF28773 HIV detection prob
992 14.6 1.0 30 22 AAF67632 PCR primer RHLR-C
993 14.6 1.0 30 22 AAF61717 Human TSHR associa
994 14.6 1.0 30 22 AAH47183 Nucleotide sequenc
995 14.6 1.0 30 23 AAS95159 Otoferlin exon/int
996 14.6 1.0 30 23 AAS95184 Otoferlin exon/int
997 14.6 1.0 30 23 AAS95201 Otoferlin exon/int
998 14.6 1.0 30 23 AB197620 Endogenous human G
999 14.6 1.0 30 24 AA168071 2-methyl-epothilon
c1000 14.6 1.0 30 24 AA168081 6-desmethyl-epothi
```

Human FD14 polypeptides and polynucleotides encoding it -  
Example 2; Page 16 (Disclosure); 32pp; Chinese.  
The present invention relates to human FD14 (AAM47799). FD14 and its coding sequence are useful for treating several diseases, such as malignant tumours, embryo and tissue maldevelopment, immunodeficiency diseases, various acquired and hereditary disease and immune disease. The present sequence is a PCR primer, which was used in an example from the present invention.  
Sequence 24 BP; 0 A; 6 C; 16 G; 2 T; 0 other;  
  
Query Match            1.5%; Score 22; DB 24; Length 24;  
Best Local Similarity 100.0%; Pred. No. 1.9e+05;  
Matches    22; Conservative 0; Mismatches 0; Indels 0; Gaps 0  
  
QY     620 agccgcgcccgcgccacc 641  
       |||||||  
Db     23 AGCCGCGCGCGGCCGCCACC 2  
  
RESULT     3  
AAA64342/c  
ID     AAA64342 standard; DNA; 28 BP.  
AC     AAA64342;  
XX  
XX  
DT     20-DEC-2000 (first entry)  
XX  
DE     Forward PCR primer used to amplify cDNA encoding Erk2.  
XX  
KW     Conformational state; post-translational modification; enzyme activity;  
KW     Erk2; protein kinase; PCR primer; ss.  
OS     Rattus sp.  
XX  
PN     WO2000050901-A1.  
XX  
PD     31-AUG-2000.  
XX  
PF     25-FEB-2000; 200WO-GB00668.  
XX  
PR     25-FEB-1999; 99GB-0004395.  
XX  
PA     (FLUO-) FLDORESCIENCE LTD.  
XX  
PI     Colyer J, Craig RK;  
PT     WPI; 2000-565475/52.  
DR  
XX  
XX  
PT     Determining the conformational state of a protein, comprises contacting  
PT     the protein with a labeled binding protein and assessing the labeling  
PT     of the protein -  
XX  
XX  
PS     Example 4; Page 39; 56pp; English.  
XX  
XX  
CC     The specification describes a method for determining the conformational  
CC     state of a protein. The method uses at least one labelled binding  
CC     partner capable of binding to the protein in a manner dependent on the  
CC     conformational state of the protein. The method is for detecting the  
CC     conformational state of a protein, for detecting post-translational  
CC     modifications of proteins, and for determining the activity of an  
CC     enzyme. PCR primers AAA64342-43 were used to amplify cDNA encoding full  
CC     length rat Erk2 protein kinase. Erk2 is used in the method of the  
CC     invention, which is used for detection of conformation change of Erk2  
CC     protein kinase due to phosphorylation.  
XX  
SQ     Sequence 28 BP; 2 A; 7 C; 17 G; 2 T; 0 other;

```
RESULT      5
AAH62243
ID   AAH62243 standard; DNA; 21 BP.
XX
AC   AAH62243;
XX
DT   12-SEP-2001 (first entry)
XX
DE   TNF receptor type 1 polymorphism containing DNA fragment #144.
XX
KW   Single nucleotide polymorphism; SNP; human; cancer; inflammation;
KW   heart disease; paternity testing; forensic science; ds.
XX
OS   Homo sapiens.
XX
FH   Key               Location/Qualifiers
FT   Variation         replace(11,t)
FT   /*tag= a
FT   /standard_name= "single nucleotide polymorphism"
XX
PN   WO200138576-A2.
XX
PR   31-MAY-2001.
XX
PR   17-NOV-2000; 2000WO-US31639.
XX
PR   24-NOV-1999; 99US-0167334.
XX
PA   (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX
PI   Cargill M, Ireland JS, Lander ES;
XX
DR   WPI; 2001-367705/38.
XX
DE   New nucleic acid segments of the human genome, particularly from genes
PT   including polymorphic sites; for phenotype correlation, forensics,
PT   paternity testing, medicine and genetic analysis -
XX
PS   Claim 1; Page 41; 80pp; English.
XX
CC   DNA sequences AAH62100 - AAH62688 represent segments of human genes which
CC   contain single nucleotide polymorphisms (SNPs). A method is included in
CC   the invention for analysing a nucleic acid sample, which consists of
CC   determining the base occupying any one of the polymorphic sites given in
CC   the SNP containing sequences. The nucleotide sequences can be used in the
CC   diagnosis or monitoring of diseases, such as cancer, inflammation, heart
CC   diseases, diseases of the cardiovascular system, and infection by
CC   microorganisms. The oligonucleotides are also useful in the manufacture
CC   of a medicament for the treatment or prophylaxis of the diseases, and as
CC   a pharmaceutical. SNP containing oligonucleotides are useful in
CC   applications such as phenotype correlation, forensics, paternity testing,
CC   medicine and genetic analysis.
XX
SQ   Sequence 21 BP; 4 A; 7 C; 6 G; 4 T; 0 other;

Query Match      1.5%; Score 21; DB 22; Length 21;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY   827 gactgtacgagcagccttcc 847
      |||||
DB   1 gactgtacgagcagccttcc 21

RESULT      6
AAF97007
ID   AAF97007 standard; DNA; 21 BP.
XX
AC   AAF97007;
XX
DT   06-JUN-2001 (first entry)
XX
DE   Human gene single nucleotide polymorphism #1769.
XX
```

```
XX
DE   Human gene single nucleotide polymorphism #1768.
XX
KW   Human; variant thrombospondin 1; variant thrombospondin 4; SNP;
KW   polymorphism; vascular disease; coronary artery disease; forensics;
KW   myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
KW   pulmonary embolism; paternity test; ds.
XX
OS   Homo sapiens.
XX
FH   Key               Location/Qualifiers
FT   Variation         replace(11,C)
FT   /*tag= a
FT   /standard_name= "single nucleotide polymorphism"
XX
PN   WO200118250-A2.
XX
PR   15-MAR-2001.
XX
PR   07-SEP-2000; 2000WO-US24503.
XX
PR   10-SEP-1999; 99US-0153357.
PR   26-JUL-2000; 2000US-0220947.
PR   16-AUG-2000; 2000US-0225724.
XX
PA   (WHED ) WHITEHEAD INST BIOMEDICAL RES.
PA   (MILL-) MILLENNIUM PHARM INC.
XX
PI   Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ;
XX
DR   WPI; 2001-226749/23.
XX
DE   Nucleic acids comprising single nucleotide polymorphisms, useful in
PT   applications such as forensics, paternity testing, medicine, genetic
PT   analysis and phenotype correlations to diseases such as diabetes and
PT   atherosclerosis -
XX
PS   Examples: Page 165; 242pp; English.
XX
CC   The present invention provides a method of diagnosing a vascular disease
CC   in an individual, involving determining the sequence at various
CC   polymorphic sites within the human thrombospondin 1 and thrombospondin 4
CC   genes. The sequences at a number of polymorphic sites are also provided
CC   in the specification. In particular, the method can be used in the
CC   diagnosis of atherosclerosis, myocardial infarction, coronary heart
CC   disease, stroke, peripheral vascular diseases, venous thromboembolism
CC   and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also
CC   useful in forensics, paternity testing, genetic analysis and phenotype
CC   correlations to diseases. The present sequence is an example of one of
CC   the human gene SNPs shown in the specification.
XX
SQ   Sequence 21 BP; 3 A; 6 C; 7 G; 5 T; 0 other;

Query Match      1.5%; Score 21; DB 22; Length 21;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY   670 cctgtagtgaatcgccgcctg 690
      |||||
DB   1 cctgtagtgaatcgccgcctg 21

RESULT      7
AAF97008
ID   AAF97008 standard; DNA; 21 BP.
XX
AC   AAF97008;
XX
DT   06-JUN-2001 (first entry)
XX
DE   Human gene single nucleotide polymorphism #1769.
XX
```



KW	Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism; pulmonary embolism; paternity test; ds.
OS	Homo sapiens.
XX	
PH	Key
FT	Variation
FT	Location/Qualifiers
FT	replace(11,A)
FT	/*tag= a
XX	/standard_name= "single nucleotide polymorphism"
XX	
PN	WO200118250-A2.
XX	
PD	15-MAR-2001.
XX	
XX	07-SEP-2000; 2000WO-US24503.
XX	
XX	10-SEP-1999; 99US-0153357.
PR	26-JUL-2000; 2000US-0220947.
PR	16-AUG-2000; 2000US-0225724.
XX	
XX	(WHED ) WHITEHEAD INST BIOMEDICAL RES.
PA	(MILL-) MILLENNIUM PHARM INC.
PA	
PI	Lander ES, Gargill M, Ireland JS, Bolk S, Daley GO, McCarthy JJ;
XX	
XX	WPI; 2001-226749/23.
XX	
XX	Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and atherosclerosis -
PT	
PT	
XX	
PS	Examples; Page 165; 242pp; English.
XX	
CC	The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPs shown in the specification.
CC	
XX	
XX	Sequence 21 BP; 2 A; 6 C; 10 G; 3 T; 0 other;
XX	
Qy	Query Match
	Best Local Similarity 1.5%; Score 21; DB 22; Length 21;
	Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0
Qy	890 cgctgcagcgctgtgtgagg 910
Db	1 cgctgcagcgctgtgtgagg 21
RESULT	8
ABA02836/c	ID
ABA02836	standard; DNA; 29 BP.
XX	
XX	ABA02836;
XX	
XX	18-FEB-2002 (first entry)
DT	
DE	Human alpha-2CAR nucleotides 953-981.
XX	
KW	Human; genotyping; alpha-2B; alpha-2A; alpha-2C; adrenergic receptor; polymorphic site; allelic variant; cardiovascular disease;
KW	central nervous system disease; adenylyl cyclase; MAP kinase activity;

phosphorylation; inositol phosphate; alpha-2CAR; ss.

Homo sapiens.

WO200179561-A2.

25-OCT-2001.

17-APR-2001; 2001WO-US12575.

17-APR-2000; 2000US-0551744.

10-AUG-2000; 2000US-0636259.

19-OCT-2000; 2000US-0692077.

(LIGG/) LIGGETT S B.  
(SMAL/) SMALL K M.

Liggett SB, Small KM;  
WPI; 2001-611728/70.

Genotyping an alpha-2B, 2A, or 2C adrenergic receptor gene useful for determining whether an individual is at increased risk of developing a disease associated with the corresponding receptor comprises detecting a polymorphic site -

Examples 15-21; Fig 11; 163pp; English.

The invention relates to genotyping an alpha-2B, 2A, or 2C adrenergic receptor gene (I)-(III) by detecting a polymorphic site, comprising:  
(a) obtaining a sample having a polynucleotide encoding an alpha-2B, alpha2A or alpha2C or fragment or complement of; and  
(b) detecting a polymorphic site comprising nucleotide positions 901-909 of (I), a site comprising cytosine or guanine at position 753 of (IIV) or a site comprising (A) (ggggcggggccg) or (B) (ggggcggtcgag) at positions 961-972 of (IIIV). The method may be used for genotyping an alpha2B, alpha2A or alpha2C receptor gene and further used to determine whether an individual is at increased risk of developing a disease associated with alpha2B, alpha2A or alpha2, comprising detecting a polymorphic site which correlate to disease selected from cardiovascular disease, central nervous system disease and combinations of these. In addition, the technique may be used to predict an individual's response to an alpha2B, alpha2A, or alpha2C agonist (e.g. epinephrine, norepinephrine, clonidine, oxymetazoline, guanabenz, UK14304, BHT933 and combinations of these) or antagonist (e.g. yohimbine, prazosin, ARC 239, rauwolfscine, idazoxan, tolazoline, phentolamine and combinations of these) by detecting the polymorphic site and correlating the site to a predetermined response (where the response is correlated to adenylyl cyclase, MAP kinase activity, phosphorylation or inositol phosphate levels). The present sequence is that of the human alpha-2CAR polymorphic site comprising nucleotides 953-981.

Sequence 29 BP; 2 A; 7 C; 19 G; 1 T; 0 other;

Query Match 1.4%; Score 20.6; DB 23; Length 29;  
Best Local Similarity 85.2%; Pred. No. 3.4e+05;  
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 620 agccgcgccgcgcgcgcacactgcc 646  
||||||| ||| | ||||| |||||  
Db 29 AGCGCCGCCGC GCCGCCGCCCTGCC 3

RESULT 9  
AAZ93432  
ID AAZ93432 standard; DNA; 20 BP.  
XX  
AC AAZ93432;  
XX  
DT 24-JUL-2000 (first entry)  
XX  
DE Forward primer for amplifying TRADD gene.

XX TRADD; TNF; tumour necrosis factor; NF-kappa-B; apoptosis;  
KW programmed cell death; antisense; inhibition; treatment; therapy;  
KW septic shock; inflammation; cancer; antiinflammatory; PCR;  
KW polymerase chain reaction; primer; ss.  
XX  
OS Synthetic.  
XX  
PN WO200012527-A1.  
XX  
PD 09-MAR-2000.  
XX  
PF 25-AUG-1999; 99WO-US19614.  
XX  
PR 28-AUG-1998; 98US-0143212.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Monia BP, Cowseert LM;  
XX  
DR WPI; 2000-237846/20.  
XX  
PT New antisense compounds that limit the expression of human TRADD  
PT protein, useful in the treatment and diagnosis of cancer, inflammation  
PT and septic shock  
XX  
PS Example 13; Page 49; 85pp; English.  
XX  
CC The intracellular protein TRADD has been identified as a critical  
CC link between tumour necrosis factor (TNF) receptor binding and  
CC downstream activation of NF-kappa-B. Overexpression of native TRADD  
CC activates NF-kappa-B in the absence of TNF and dominant negative  
CC mutants of TRADD block TNF-induced NF-kappa-B activation. A second  
CC effect of TNF in many cell types is the induction of apoptosis  
CC (programmed cell death). TRADD overexpression has been shown to  
CC mimic TNF induction of apoptosis as well. Data indicates that TRADD  
CC and other downstream effector proteins are the rate limiting step  
CC of TNF action and would therefore serve as the most efficient  
CC targets for inhibition of TNF-induced events. Antisense  
CC oligonucleotides capable of inhibiting TRADD function may therefore  
CC be useful in a number of therapeutic, diagnostic and research  
CC applications. Inhibiting expression of TRADD by contacting human  
CC cells or tissues with the antisense compound may be used to treat a  
CC disease or condition associated with TRADD expression, for example,  
CC septic shock, inflammation, or cancer. TRADD antisense  
CC oligonucleotides of varying inhibitory capabilities are listed in.  
CC GENESEO records AA293438-293517. Two primers (AA293432, AA293433) were  
CC used to amplify the human TRADD gene.  
XX  
SQ Sequence 20 BP; 4 A; 3 C; 8 G; 5 T; 0 other;

Query Match 1.4%; Score 20; DB 21; Length 20;  
Best Local Similarity 100.0%; Pred. No. 4.3e+05;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 440 acgaggagcgtgttgagt 459  
|||||  
Db 1 acgaggagcgtgttgagt 20

RESULT 10  
AAZ20940/c  
ID AAZ20940 standard; DNA: 28 BP.  
XX  
AC AAZ20940;

XX  
XX 02-DEC-1999 (first entry)  
DT  
DE Forward primer to prepare ERK2 for bacterial expression.

XX mitogen activated protein; MAP kinase; apoptosis; cancer; inflammation;  
KW Intracellular signal transduction pathway; inhibitor; wildtype; ERK;

KW extracellular signal regulated kinase; primer; PCR; recombinant protein;  
KW bacterial expression; ss.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
PN WO9942592-A1.  
XX  
PD 26-AUG-1999.  
XX  
PF 16-FEB-1999; 99WO-US03181.  
XX  
PR 18-FEB-1998; 98US-0025580.  
XX  
PA (VERT-) VERTEX PHARM INC.  
XX  
PI Su MS, Fox E, Wilson KP, Germann UA;  
XX  
DR WPI; 1999-540310/45.  
XX

Method of designing Ser/Thr or Tyr Kinase inhibitor useful for  
treating, example breast cancer, restenosis, asthma or hypertension -  
Example 1; Page 20; 71pp; English.  
XX

This is the forward primer for the amplification of the N-terminus of  
the extracellular signal regulation kinase (ERK) 2. The primers  
(AAZ20940 and AAZ20941) were used to introduce NdeI and BamHI sites into  
the ERK2 fragment, simultaneously a (His) 6 metal affinity tag and a  
thrombin cleavage site were also introduced into the N-terminus of the  
translation product, before bacterial expression of the recombinant  
ERK2.  
MAP 1 kinases mediate intracellular signal transduction pathways  
and so have a role in many diverse human diseases. For example,  
kinases have been implicated in cell entry into apoptosis, cancer,  
Alzheimer's disease, angiotensin II and hematopoietic cytokine receptor  
signal transduction, oncoprotein signalling and mitosis, inflammation  
and infection, etc.  
Members of the MAP kinase family share sequence similarity and  
conserved structural domains, and include the extracellular-signal  
regulated kinases (ERKs), Jun N-terminal kinases (JNKs) and p38 kinases.  
The invention relates to methods for designing inhibitors of  
serine/threonine kinases, particularly MAP kinases, and tyrosine kinases  
through the use of ATP-binding site mutants of these kinases. The  
methods of this invention take advantage of the fact that the mutant  
kinases are capable of binding inhibitory compounds of other kinases  
with greater affinity than the corresponding wild-type kinase.

SQ Sequence 28 BP; 4 A; 7 C; 13 G; 4 T; 0 other;

Query Match 1.4%; Score 19.8; DB 20; Length 28;  
Best Local Similarity 91.3%; Pred. No. 4.8e+05;  
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 621 gccgcgcgcgcgcgcgcacctg 643  
|||||  
Db 27 GCCGCGCGCGCGCGCCCATATG 5

RESULT 11  
AAZ44349/c  
ID AAZ44349 standard; DNA: 21 BP.  
XX  
AC AAZ44349;

XX  
XX 04-APR-2000 (first entry)  
DT  
DE Protein kinase inhibiting primer #11.

XX Antimicrobial; cytostatic; immunosuppressive; protein kinase;  
KW prophylactic; therapy; treatment; cancer; autoimmune disease;  
KW pathogenic microorganism; primer; ss.



Query Match 1.4%; Score 19.4; DB 15; Length 25;  
Best Local Similarity 95.2%; Pred. No. 5.6e+05;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcacc 641  
|||||  
Db 25 GCCGCCGCCGCCGCCGCCGCC 5

RESULT 14  
AAQ85271/c  
ID AAQ85271 standard; DNA; 25 BP.

XX AC AAQ85271;  
XX AC  
DT 24-AUG-1995 (first entry)  
XX DE Probe for Fragile X condition.  
XX KW Prenatal diagnosis; fragile X; probe; ss.  
XX OS Synthetic.  
XX PN WO9503431-A.  
XX PD 02-FEB-1995.  
XX PF 19-JUL-1994; 94WO-US08342.  
XX PR 19-JUL-1993; 93US-0094710.  
XX PA (APRO-) APROGENEX INC.  
XX PI Asgari M, Bresser J, Cubbage ML, Poindexter BJ;  
XX PI Prashad, Ryusaki T, Weber WD;  
XX DR WPI; 1995-075255/10.  
XX PT Identifying foetal cells in samples contg. maternal cells - used  
XX PT for monitoring foetus status, identifying sex or detecting  
XX PT genetic abnormalities or viral infection  
XX PS Example; Page 75; 115pp; English.  
XX CC In the example, Fragile X Chromosome is identified in amniocytes  
XX CC and in peripheral blood mononuclear cells. The 5' aminohexyl oligos  
XX CC is coupled to the fluorescent dye fluorescein. When an  
XX CC amplification of the CGG DNA fragment (of the X chromosome in  
XX CC Xq27.3) is present, there is an increase in the intensity of the  
XX CC signal.  
XX SQ Sequence 25 BP; 0 A; 9 C; 16 G; 0 U; 0 other;

Query Match 1.4%; Score 19.4; DB 16; Length 25;  
Best Local Similarity 95.2%; Pred. No. 5.6e+05;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcacc 641  
|||||  
Db 25 GCCGCCGCCGCCGCCGCCGCC 5

RESULT 15  
AAQ85267/c  
ID AAX05267 standard; DNA; 25 BP.

XX AC AAX05267;  
XX AC  
DT 14-APR-1999 (first entry)  
XX DT

DE Fragile X chromosome detecting probe.

XX Genetic testing; foetal cell; maternal; blood; pregnant; hybridisation;  
KW detection; HIV, hepatitis virus; herpes virus; chromosomal abnormality;  
KW probe; ss.  
XX Synthetic.  
OS Homo sapiens.  
XX US5858649-A.  
XX 12-JAN-1999.  
XX 31-DEC-1996; 96US-0775609.  
XX 17-JUL-1992; 92US-0915765.  
XX 19-JUL-1993; 93US-0094710.  
XX 19-JUL-1994; 94WO-US08342.  
XX 17-JAN-1995; 95US-0374144.  
XX 31-DEC-1996; 96US-0775609.  
XX (APRO-) APROGENEX INC.  
XX Asgari M, Bresser J, Cubbage ML, Prashad N;  
XX WPI; 1999-152096/13.  
XX Method for distinguishing foetal cells from adult cells in blood -  
XX based on amplification and detection of mRNA selectively expressed  
XX in foetal cells

Example 4, 14; Column 49; 49pp; English.

XX The invention relates to a method of enriching foetal cells from  
XX maternal blood and for identifying such foetal cells. Foetal cells can  
XX be distinguished from adult cells in a blood specimen by (a) treating a  
XX blood specimen from a pregnant female to yield a mixture of cells  
XX comprising foetal cells and adult cells; (b) amplifying one or more mRNAs  
XX within the cells, the mRNAs being selectively expressed in target foetal  
XX cells to be distinguished but not expressed in adult blood cells; (c)  
XX performing in situ hybridisation on the cells under hybridising  
XX conditions suitable to maintain cell membranes in a substantially intact  
XX state and with a hybridisation medium comprising a detectably labelled  
XX probe complementary to the amplified mRNA that is selectively expressed  
XX in the target foetal cells but not expressed in adult blood cells; (d)  
XX removing the hybridisation medium and unhybridised probe from the mixture  
XX of cells to yield hybridised cells, and (e) detecting the labelled probe  
XX remaining in the hybridised cells; whereby cells in which the labelled  
XX probe is detected are identified as the target foetal cells; A second  
XX method for determining the presence of a target nucleotide sequence in  
XX individual foetal cells present in a cellular specimen is also provided.  
XX The methods (especially the second) is useful for detecting HIV,  
XX hepatitis viruses or herpes viruses in foetal cells, or for detecting  
XX chromosomal abnormalities in foetal cells. The present sequence  
XX represents a probe used for the detection of the fragile X chromosome in  
XX amniocytes and in peripheral blood mononuclear cells.

XX Sequence 25 BP; 0 A; 9 C; 16 G; 0 U; 0 other;

Query Match 1.4%; Score 19.4; DB 20; Length 25;  
Best Local Similarity 95.2%; Pred. No. 5.6e+05;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcacc 641  
|||||  
Db 25 GCCGCCGCCGCCGCCGCCGCC 5

Search completed: August 18, 2002, 19:12:55  
Job time: 4140 sec





GenCore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 18, 2002, 17:15:00 ; Search time 1938.53 Seconds  
(without alignments)  
15490.903 Million cell updates/sec

Title: US-09-763-748-1  
Perfect score: 1435  
Sequence: 1 ctgcggcgctgggaaccca.....gataataaagtataacacgg 1435

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues  
Total number of hits satisfying chosen parameters: 524256

Minimum DB seq length: 0  
Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : GenEmbl.\*

1: gb\_ba.\*

2: gb\_htg.\*

3: gb\_in.\*

4: gb\_om.\*

5: gb\_ov.\*

6: gb\_pat.\*

7: gb\_ph.\*

8: gb\_pl.\*

9: gb\_pr.\*

10: gb\_ro.\*

11: gb\_sts.\*

12: gb\_sy.\*

13: gb\_un.\*

14: gb\_vi.\*

15: em\_ba.\*

16: em\_fun.\*

17: em\_hum.\*

18: em\_in.\*

19: em\_mu.\*

20: em\_om.\*

21: em\_or.\*

22: em\_ov.\*

23: em\_pat.\*

24: em\_ph.\*

25: em\_pl.\*

26: em\_ro.\*

27: em\_sts.\*

28: em\_un.\*

29: em\_vi.\*

30: em\_htg\_hum.\*

31: em\_htg\_inv.\*

32: em\_htg\_other.\*

33: em\_htgo\_inv.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB	ID	Description
-----							

c	1	28	2.0	28	6	AR091086	AR091086 Sequence
c	2	26	1.8	26	6	AR091085	AR091085 Sequence
c	3	22	1.5	22	6	AR098748	AR098748 Sequence
c	4	21.8	1.5	28	6	AX034217	AX034217 Sequence
	5	20.6	1.4	21	6	AX096594	AX096594 Sequence
	6	20.6	1.4	21	6	AX096595	AX096595 Sequence
	7	20.6	1.4	21	6	AX154045	AX154045 Sequence
	8	20.6	1.4	21	6	AX154046	AX154046 Sequence
	9	20	1.4	20	6	AR098747	AR098747 Sequence
	10	20	1.4	30	6	184401	184401 Sequence 2
c	11	19.8	1.4	28	6	AR136837	AR136837 Sequence
c	12	19.4	1.4	21	6	AR084578	AR084578 Sequence
c	13	19.4	1.4	21	6	AR084582	AR084582 Sequence
c	14	19.4	1.4	21	6	AR093142	AR093142 Sequence
c	15	19.4	1.4	24	6	AR078307	AR078307 Sequence
c	16	19.4	1.4	25	6	AR028113	AR028113 Sequence
c	17	19.4	1.4	25	6	AR030289	AR030289 Sequence
c	18	19.4	1.4	25	6	142108	142108 Sequence 3
	19	19	1.3	19	6	AR098749	AR098749 Sequence
	20	18.8	1.3	25	6	AR093838	AR093838 Sequence
c	21	18.8	1.3	25	6	AX226444	AX226444 Sequence
c	22	18.8	1.3	25	6	EL3596	EL3596 Primer, 6/1
c	23	18.8	1.3	28	6	AR117902	AR117902 Sequence
	24	18.8	1.3	28	6	AR156898	AR156898 Sequence
	25	18.8	1.3	28	6	AX128360	AX128360 Sequence
c	26	18.4	1.3	20	6	AX104051	AX104051 Sequence
c	27	18.4	1.3	20	6	AX355382	AX355382 Sequence
	28	18.4	1.3	21	6	AR084563	AR084563 Sequence
	29	18.4	1.3	21	6	AR084566	AR084566 Sequence
c	30	18.4	1.3	21	6	AR084567	AR084567 Sequence
c	31	18.4	1.3	21	6	AR084579	AR084579 Sequence
c	32	18.4	1.3	24	6	AR078306	AR078306 Sequence
c	33	18	1.3	18	6	A89440	A89440 Sequence 15
c	34	18	1.3	18	6	A89443	A89443 Sequence 15
c	35	18	1.3	18	6	AR098753	AR098753 Sequence
c	36	18	1.3	18	6	AR098754	AR098754 Sequence
c	37	18	1.3	18	6	AR098755	AR098755 Sequence
c	38	18	1.3	18	6	AR098756	AR098756 Sequence
c	39	18	1.3	18	6	AR098757	AR098757 Sequence
c	40	18	1.3	18	6	AR098758	AR098758 Sequence
c	41	18	1.3	18	6	AR098759	AR098759 Sequence
c	42	18	1.3	18	6	AR098760	AR098760 Sequence
c	43	18	1.3	18	6	AR098761	AR098761 Sequence
c	44	18	1.3	18	6	AR098762	AR098762 Sequence
c	45	18	1.3	18	6	AR098763	AR098763 Sequence
c	46	18	1.3	18	6	AR098764	AR098764 Sequence
c	47	18	1.3	18	6	AR098765	AR098765 Sequence
c	48	18	1.3	18	6	AR098766	AR098766 Sequence
c	49	18	1.3	18	6	AR098767	AR098767 Sequence
c	50	18	1.3	18	6	AR098768	AR098768 Sequence
c	51	18	1.3	18	6	AR098769	AR098769 Sequence
c	52	18	1.3	18	6	AR098770	AR098770 Sequence
c	53	18	1.3	18	6	AR098771	AR098771 Sequence
c	54	18	1.3	18	6	AR098772	AR098772 Sequence
c	55	18	1.3	18	6	AR098773	AR098773 Sequence
c	56	18	1.3	18	6	AR098774	AR098774 Sequence
c	57	18	1.3	18	6	AR098775	AR098775 Sequence
c	58	18	1.3	18	6	AR098776	AR098776 Sequence
c	59	18	1.3	18	6	AR098777	AR098777 Sequence
c	60	18	1.3	18	6	AR098778	AR098778 Sequence
c	61	18	1.3	18	6	AR098779	AR098779 Sequence
c	62	18	1.3	18	6	AR098780	AR098780 Sequence
c	63	18	1.3	18	6	AR098781	AR098781 Sequence
c	64	18	1.3	18	6	AR098782	AR098782 Sequence
c	65	18	1.3	18	6	AR098783	AR098783 Sequence
c	66	18	1.3	18	6	AR098784	AR098784 Sequence
c	67	18	1.3	18	6	AR098785	AR098785 Sequence
c	68	18	1.3	18	6	AR098786	AR098786 Sequence
c	69	18	1.3	18	6	AR098787	AR098787 Sequence
c	70	18	1.3	18	6	AR098788	AR098788 Sequence
c	71	18	1.3	18	6	AR098789	AR098789 Sequence
c	72	18	1.3	18	6	AR098790	AR098790 Sequence
c	73	18	1.3	18	6	AR098791	AR098791 Sequence

c 74	18	1.3	18	6	AR098792	Sequence	AR098792	Sequence	c 147	16.4	1.1	29	6	AX166363	Sequence
c 75	18	1.3	18	6	AR098793	Sequence	AR098793	Sequence	c 148	16.4	1.1	30	6	AX019149	Sequence
c 76	18	1.3	18	6	AR098794	Sequence	AR098794	Sequence	c 149	16.4	1.1	30	6	AX026058	Sequence
c 77	18	1.3	18	6	AR098795	Sequence	AR098795	Sequence	c 150	16.4	1.1	30	6	AX035480	Sequence
c 78	18	1.3	18	6	AR098796	Sequence	AR098796	Sequence	c 151	16.4	1.1	30	6	AX056853	Sequence
c 79	18	1.3	18	6	AR098797	Sequence	AR098797	Sequence	c 152	16.4	1.1	30	6	AX127355	Sequence
c 80	18	1.3	18	6	AR098798	Sequence	AR098798	Sequence	c 153	16.2	1.1	22	6	A87888	Sequence 36
c 81	18	1.3	18	6	AR098799	Sequence	AR098799	Sequence	c 154	16.2	1.1	22	6	A89855	Sequence 36
c 82	18	1.3	18	6	AR098800	Sequence	AR098800	Sequence	c 155	16.2	1.1	23	6	A22072	A22072 oligonucleo
c 83	18	1.3	18	6	AR098801	Sequence	AR098801	Sequence	c 156	16.2	1.1	23	6	A77134	A77134 Sequence 2
c 84	18	1.3	18	6	AR098802	Sequence	AR098802	Sequence	c 157	16.2	1.1	23	6	AR029100	Sequence
c 85	18	1.3	18	6	AR098803	Sequence	AR098803	Sequence	c 158	16.2	1.1	23	6	AX350161	Sequence
c 86	18	1.3	18	6	AR098804	Sequence	AR098804	Sequence	c 159	16.2	1.1	23	6	E33132	E33132 Humanized a
c 87	18	1.3	18	6	AR098805	Sequence	AR098805	Sequence	c 160	16.2	1.1	23	6	I12752	I12752 Sequence 50
c 88	18	1.3	18	6	AR098806	Sequence	AR098806	Sequence	c 161	16.2	1.1	24	6	AR035571	AR035571 Sequence
c 89	18	1.3	18	6	AR098807	Sequence	AR098807	Sequence	c 162	16.2	1.1	29	6	AX040126	AX040126 Sequence
c 90	18	1.3	18	6	AR098808	Sequence	AR098808	Sequence	c 163	16.2	1.1	30	6	AR072121	AR072121 Sequence
c 91	18	1.3	18	6	AR098809	Sequence	AR098809	Sequence	c 164	16.2	1.1	30	6	AR161859	AR161859 Sequence
c 92	18	1.3	18	6	AR098810	Sequence	AR098810	Sequence	c 165	16.2	1.1	30	6	AX140452	AX140452 Sequence
c 93	18	1.3	18	6	AR098811	Sequence	AR098811	Sequence	c 166	16.2	1.1	30	6	I40012	I40012 Sequence 65
c 94	18	1.3	18	6	AR098812	Sequence	AR098812	Sequence	c 167	16	1.1	16	6	A89435	A89435 Sequence 15
c 95	18	1.3	18	6	AR098813	Sequence	AR098813	Sequence	c 168	16	1.1	16	6	A89436	A89436 Sequence 15
c 96	18	1.3	18	6	AR098814	Sequence	AR098814	Sequence	c 169	16	1.1	16	6	A89439	A89439 Sequence 15
c 97	18	1.3	18	6	AR098815	Sequence	AR098815	Sequence	c 170	16	1.1	16	6	A89442	A89442 Sequence 15
c 98	18	1.3	18	6	AR098816	Sequence	AR098816	Sequence	c 171	16	1.1	16	6	A89446	A89446 Sequence 15
c 99	18	1.3	18	6	AR098817	Sequence	AR098817	Sequence	c 172	16	1.1	17	6	AR164080	AR164080 Sequence
c 100	18	1.3	18	6	AR098818	Sequence	AR098818	Sequence	c 173	16	1.1	17	6	AR164081	AR164081 Sequence
c 101	18	1.3	18	6	AR098819	Sequence	AR098819	Sequence	c 174	16	1.1	24	6	AR010038	AR010038 Sequence
c 102	18	1.3	18	6	AR098820	Sequence	AR098820	Sequence	c 175	16	1.1	24	6	AR034773	AR034773 Sequence
c 103	18	1.3	18	6	AR098821	Sequence	AR098821	Sequence	c 176	16	1.1	24	6	AX023424	AX023424 Sequence
c 104	18	1.3	18	6	AR098822	Sequence	AR098822	Sequence	c 177	16	1.1	25	6	I21150	I21150 Sequence 14
c 105	18	1.3	18	6	AR098823	Sequence	AR098823	Sequence	c 178	16	1.1	25	6	I58023	I58023 Sequence 16
c 106	18	1.3	18	6	AR098824	Sequence	AR098824	Sequence	c 179	16	1.1	26	6	AR004587	AR004587 Sequence
c 107	18	1.3	18	6	AR098825	Sequence	AR098825	Sequence	c 180	16	1.1	26	6	AX046085	AX046085 Sequence
c 108	18	1.3	18	6	AR098826	Sequence	AR098826	Sequence	c 181	16	1.1	26	6	AX247514	AX247514 Sequence
c 109	18	1.3	18	6	AR098827	Sequence	AR098827	Sequence	c 182	16	1.1	26	6	AX285283	AX285283 Sequence
c 110	18	1.3	18	6	AR098828	Sequence	AR098828	Sequence	c 183	16	1.1	27	6	A02315	A02315 Oligonucleo
c 111	18	1.3	18	6	AR098829	Sequence	AR098829	Sequence	c 184	16	1.1	27	6	A61795	A61795 Sequence 18
c 112	18	1.3	18	6	AR098830	Sequence	AR098830	Sequence	c 185	16	1.1	27	6	A94883	A94883 Sequence 7
c 113	18	1.3	18	6	AR098831	Sequence	AR098831	Sequence	c 186	16	1.1	27	6	AR161685	AR161685 Sequence
c 114	18	1.3	18	6	AR098832	Sequence	AR098832	Sequence	c 187	16	1.1	27	6	E36505	E36505 Varicella-z
c 115	18	1.3	18	6	A44949	Sequence 5	A44949	Sequence 5	c 188	16	1.1	28	6	BD004283	BD004283 Apo E hum
c 116	18	1.3	30	6	I64440	Sequence 5	I64440	Sequence 5	c 189	16	1.1	29	6	BD004282	BD004282 Apo E hum
c 117	17.4	1.2	24	6	AR159556	Sequence	AR159556	Sequence	c 190	16	1.1	29	6	BD004282	BD004282 Apo E hum
c 118	17.2	1.2	22	6	A88669	Sequence 81	A88669	Sequence 81	c 191	16	1.1	30	6	AX003461	AX003461 Sequence
c 119	17.2	1.2	22	6	A90636	Sequence 81	A90636	Sequence 81	c 192	16	1.1	30	6	BD011248	BD011248 Human tel
c 120	17.2	1.2	26	6	AX282812	Sequence	AX282812	Sequence	c 193	16	1.1	30	6	E36997	E36997 Human telom
c 121	17	1.2	26	6	A67594	Sequence 14	A67594	Sequence 14	c 194	15.8	1.1	20	6	AR086254	AR086254 Sequence
c 122	17	1.2	28	6	AR089732	Sequence	AR089732	Sequence	c 195	15.8	1.1	20	6	AR137400	AR137400 Sequence
c 123	17	1.2	20	6	AR163839	Sequence	AR163839	Sequence	c 196	15.8	1.1	20	6	AR176820	AR176820 Sequence
c 124	17	1.2	28	6	E44025	Sequence	E44025	Novel human	c 197	15.8	1.1	25	6	A47526	A47526 Sequence 21
c 125	17	1.2	30	6	A84394	Sequence 9	A84394	Sequence 9	c 198	15.8	1.1	25	6	AR097937	AR097937 Sequence
c 126	16.8	1.2	23	6	I30059	Sequence 11	I30059	Sequence 11	c 199	15.8	1.1	27	6	AR031339	AR031339 Sequence
c 127	16.8	1.2	26	6	I72459	Sequence 43	I72459	Sequence 43	c 200	15.8	1.1	27	6	AR110673	AR110673 Sequence
c 128	16.8	1.2	28	6	AR091083	Sequence	AR091083	Sequence	c 201	15.8	1.1	27	6	AX092979	AX092979 Sequence
c 129	16.8	1.2	28	6	AX299899	Sequence	AX299899	Sequence	c 202	15.8	1.1	27	6	AX236840	AX236840 Sequence
c 130	16.8	1.2	30	6	AR038345	Sequence	AR038345	Sequence	c 203	15.8	1.1	27	6	AX236840	AX236840 Sequence
c 131	16.6	1.2	24	6	AR016328	Sequence	AR016328	Sequence	c 204	15.8	1.1	27	10	MM1175	MM1175 Homo sapi
c 132	16.6	1.2	24	6	I12751	Sequence 49	I12751	Sequence 49	c 205	15.8	1.1	28	6	AR026726	AR026726 Sequence
c 133	16.6	1.2	24	6	I59952	Sequence 7	I59952	Sequence 7	c 206	15.8	1.1	28	6	AR049152	AR049152 Sequence
c 134	16.6	1.2	24	6	I86033	Sequence 7	I86033	Sequence 7	c 207	15.8	1.1	28	6	AR065410	AR065410 Sequence
c 135	16.6	1.2	29	6	I74753	Sequence 93	I74753	Sequence 93	c 208	15.8	1.1	28	6	AX356210	AX356210 Sequence
c 136	16.6	1.2	30	6	A49335	Sequence 16	A49335	Sequence 16	c 209	15.8	1.1	29	6	A16462	A16462 Oligonucleo
c 137	16.4	1.1	20	6	AR130110	Sequence	AR130110	Sequence	c 210	15.8	1.1	29	6	A23827	A23827 Artificial
c 138	16.4	1.1	21	6	AX153903	Sequence	AX153903	Sequence	c 211	15.8	1.1	29	6	BD007256	BD007256 Novel flt
c 139	16.4	1.1	27	6	AR039194	Sequence	AR039194	Sequence	c 212	15.8	1.1	29	6	I36248	I36248 Sequence 1
c 140	16.4	1.1	27	6	E31954	Process for	E31954	Process for	c 213	15.8	1.1	29	6	I73763	I73763 Sequence 37
c 141	16.4	1.1	28	6	AR022564	Sequence	AR022564	Sequence	c 214	15.8	1.1	29	6	I92486	I92486 Sequence 1
c 142	16.4	1.1	28	6	AR037579	Sequence	AR037579	Sequence	c 215	15.8	1.1	30	6	A12174	A12174 Nucleotide
c 143	16.4	1.1	28	6	AR178037	Sequence	AR178037	Sequence	c 216	15.8	1.1	30	6	A87658	A87658 Sequence 9
c 144	16.4	1.1	28	6	AX183666	Sequence	AX183666	Sequence	c 217	15.8	1.1	30	6	AR024126	AR024126 Sequence
c 145	16.4	1.1	29	6	AR135624	Sequence	AR135624	Sequence	c 218	15.8	1.1	30	6	AR035226	AR035226 Sequence
c 146	16.4	1.1	29	6	AR135635	Sequence	AR135635	Sequence	c 219	15.8	1.1	30	6	AR083501	AR083501 Sequence



c 220	15.8	1.1	30	6	AX002613	AX002613 Sequence	293	15.4	1.1	30	6	A17453	A17453 oligonucleo
c 221	15.8	1.1	30	6	AX003657	AX003657 Sequence	294	15.4	1.1	30	6	A46153	A46153 Sequence 48
c 222	15.8	1.1	30	6	BD001230	BD001230 Method an	c 295	15.4	1.1	30	6	A79795	A79795 Sequence 3
c 223	15.8	1.1	30	6	BD001659	BD001659 Method an	296	15.4	1.1	30	6	AR014428	AR014428 Sequence
c 224	15.6	1.1	22	6	AR122452	AR122452 Sequence	297	15.4	1.1	30	6	AR023777	AR023777 Sequence
c 225	15.6	1.1	22	6	AX201795	AX201795 Sequence	298	15.4	1.1	30	6	AR061343	AR061343 Sequence
c 226	15.6	1.1	22	6	AX201805	AX201805 Sequence	299	15.4	1.1	30	6	AR108242	AR108242 Sequence
c 227	15.6	1.1	22	6	AX201813	AX201813 Sequence	300	15.4	1.1	30	6	AR110008	AR110008 Sequence
c 228	15.6	1.1	22	6	E64578	E64578 Method for	301	15.4	1.1	30	6	BD008872	BD008872 High leve
c 229	15.6	1.1	22	6	I33156	I33156 Sequence 10	302	15.4	1.1	30	6	I11871	I11871 Sequence 37
c 230	15.6	1.1	23	6	AR078417	AR078417 Sequence	c 303	15.4	1.1	30	6	I14131	I14131 Sequence 5
c 231	15.6	1.1	24	6	A31620	A31620 Synthetic p	304	15.4	1.1	30	6	I16199	I16199 Sequence 25
c 232	15.6	1.1	24	6	E01383	E01383 DNA encodin	305	15.4	1.1	30	6	I66685	I66685 Sequence 25
c 233	15.6	1.1	25	6	AX207016	AX207016 Sequence	306	15.4	1.1	30	6	I84779	I84779 Sequence 25
c 234	15.6	1.1	25	6	AX236598	AX236598 Sequence	307	15.4	1.1	30	9	S66556	S66556 COL1A1-coll
c 235	15.6	1.1	25	6	AX236604	AX236604 Sequence	c 308	15.2	1.1	20	6	AR037329	AR037329 Sequence
c 236	15.6	1.1	25	6	AX236619	AX236619 Sequence	c 309	15.2	1.1	20	6	AR040612	AR040612 Sequence
c 237	15.6	1.1	26	6	A99052	A99052 Sequence 60	310	15.2	1.1	20	6	AR163990	AR163990 Sequence
c 238	15.6	1.1	26	6	AX092599	AX092599 Sequence	311	15.2	1.1	20	6	AR174402	AR174402 Sequence
c 239	15.6	1.1	27	6	AR052912	AR052912 Sequence	c 312	15.2	1.1	20	6	E16118	E16118 PCR primer
c 240	15.6	1.1	27	6	AR054475	AR054475 Sequence	313	15.2	1.1	20	6	E16119	E16119 PCR primer
c 241	15.6	1.1	27	6	AR054477	AR054477 Sequence	c 314	15.2	1.1	20	6	I19623	I19623 Sequence 4
c 242	15.6	1.1	27	6	AR116911	AR116911 Sequence	c 315	15.2	1.1	20	11	DOGHOX7B	L77371 Canis fami
c 243	15.6	1.1	27	6	AR135729	AR135729 Sequence	c 316	15.2	1.1	21	6	AR043094	AR043094 Sequence
c 244	15.6	1.1	28	6	A36955	A36955 Sequence 6	c 317	15.2	1.1	21	6	AR112354	AR112354 Sequence
c 245	15.6	1.1	28	6	A39163	A39163 Sequence 11	c 318	15.2	1.1	21	6	AR163669	AR163669 Sequence
c 246	15.6	1.1	28	6	A39222	A39222 Sequence 6	c 319	15.2	1.1	21	6	AX096563	AX096563 Sequence
c 247	15.6	1.1	30	6	A76887	A76887 Sequence 19	c 320	15.2	1.1	21	6	I07723	I07723 Sequence 28
c 248	15.6	1.1	30	6	AX058671	AX058671 Sequence	c 321	15.2	1.1	23	6	AR090853	AR090853 Sequence
c 249	15.6	1.1	30	6	AX207307	AX207307 Sequence	c 322	15.2	1.1	24	6	AX289979	AX289979 Sequence
c 250	15.6	1.1	30	6	AX235827	AX235827 Sequence	323	15.2	1.1	24	6	I16928	I16928 Sequence 3
c 251	15.6	1.1	30	6	I09682	I09682 Sequence 7	324	15.2	1.1	25	6	A63591	A63591 Sequence 5
c 252	15.6	1.1	30	6	I19154	I19154 Sequence 17	325	15.2	1.1	25	6	AX283527	AX283527 Sequence
c 253	15.6	1.1	30	6	I28590	I28590 Sequence 43	c 326	15.2	1.1	25	6	E34115	E34116 Protein par
c 254	15.6	1.1	30	6	I58752	I58752 Sequence 43	c 327	15.2	1.1	26	6	BD000384	BD000384 Method fo
c 255	15.4	1.1	17	6	A88670	A88670 Sequence 81	328	15.2	1.1	27	6	AR031634	AR031634 Sequence
c 256	15.4	1.1	17	6	A90637	A90637 Sequence 81	329	15.2	1.1	27	6	AR079143	AR079143 Sequence
c 257	15.4	1.1	18	6	A04794	A04794 Oligonucleo	c 330	15.2	1.1	27	6	AX054728	AX054728 Sequence
c 258	15.4	1.1	18	6	A09418	A09418 Oligonucleo	c 331	15.2	1.1	27	6	AX154952	AX154952 Sequence
c 259	15.4	1.1	18	6	A09458	A09458 Synthetic n	c 332	15.2	1.1	27	6	AX306746	AX306746 Sequence
c 260	15.4	1.1	18	6	A35123	A35123 Synthetic I	c 333	15.2	1.1	27	6	AX306747	AX306747 Sequence
c 261	15.4	1.1	18	6	A67588	A67588 Sequence 8	334	15.2	1.1	28	6	AR120087	AR120087 Sequence
c 262	15.4	1.1	18	6	AR085574	AR085574 Sequence	c 335	15.2	1.1	28	6	AR139142	AR139142 Sequence
c 263	15.4	1.1	18	6	AR089726	AR089726 Sequence	c 336	15.2	1.1	28	6	AX008031	AX008031 Sequence
c 264	15.4	1.1	19	6	AX131573	AX131573 Sequence	c 337	15.2	1.1	28	6	AX008200	AX008200 Sequence
c 265	15.4	1.1	20	6	AR052628	AR052628 Sequence	338	15.2	1.1	28	6	E07804	E07804 Adapter. 9/
c 266	15.4	1.1	21	6	AX095334	AX095334 Sequence	c 339	15.2	1.1	28	6	I71343	I71343 Sequence 15
c 267	15.4	1.1	22	6	AR052909	AR052909 Sequence	c 340	15.2	1.1	29	6	AR012281	AR012281 Sequence
c 268	15.4	1.1	22	6	AR054272	AR054272 Sequence	c 341	15.2	1.1	29	6	AR016276	AR016276 Sequence
c 269	15.4	1.1	22	6	AR054474	AR054474 Sequence	c 342	15.2	1.1	29	6	AR138084	AR138084 Sequence
c 270	15.4	1.1	24	6	AR084538	AR084538 Sequence	343	15.2	1.1	29	6	AR172341	AR172341 Sequence
c 271	15.4	1.1	24	6	BD010533	BD010533 A novel h	c 344	15.2	1.1	29	6	AX183868	AX183868 Sequence
c 272	15.4	1.1	25	6	A30580	A30580 Synthetic m	c 345	15.2	1.1	29	6	E27930	E27930 DNA encodin
c 273	15.4	1.1	25	6	AR054039	AR054039 Sequence	c 346	15.2	1.1	29	6	I14979	I14979 Sequence 65
c 274	15.4	1.1	25	6	AR088202	AR088202 Sequence	c 347	15.2	1.1	29	6	I28483	I28483 Sequence 8
c 275	15.4	1.1	26	6	AR024090	AR024090 Sequence	c 348	15.2	1.1	29	6	I73699	I73699 Sequence 65
c 276	15.4	1.1	26	6	AX203623	AX203623 Sequence	c 349	15.2	1.1	30	6	A23496	A23496 Oligonucleo
c 277	15.4	1.1	26	6	BD001194	BD001194 Method an	350	15.2	1.1	30	6	A38420	A38420 Sequence 11
c 278	15.4	1.1	26	6	BD001623	BD001623 Method an	c 351	15.2	1.1	30	6	A76887	A76887 Sequence 19
c 279	15.4	1.1	26	6	E13969	E13969 PCR primer.	352	15.2	1.1	30	6	A97986	A97986 Sequence 16
c 280	15.4	1.1	27	6	AR040180	AR040180 Sequence	353	15.2	1.1	30	6	AR146996	AR146996 Sequence
c 281	15.4	1.1	27	6	AX012394	AX012394 Sequence	354	15.2	1.1	30	6	AX017173	AX017173 Sequence
c 282	15.4	1.1	27	6	AX052686	AX052686 Sequence	355	15.2	1.1	30	6	AX036135	AX036135 Sequence
c 283	15.4	1.1	27	6	AX193533	AX193533 Sequence	356	15.2	1.1	30	6	E08862	E08862 Probe. 9/19
c 284	15.4	1.1	27	6	AX281251	AX281251 Sequence	c 357	15.2	1.1	30	6	E50631	E50631 Betacelluli
c 285	15.4	1.1	27	6	AX317463	AX317463 Sequence	c 358	15	1.0	15	6	A89438	A89438 Sequence 15
c 286	15.4	1.1	27	6	E60000	E60000 Highly acti	c 359	15	1.0	15	6	A89441	A89441 Sequence 15
c 287	15.4	1.1	27	6	I23391	I23391 Sequence 9	c 360	15	1.0	15	6	A89447	A89447 Sequence 15
c 288	15.4	1.1	29	6	AX203783	AX203783 Sequence	c 361	15	1.0	15	6	AR084532	AR084532 Sequence
c 289	15.4	1.1	29	6	AX288078	AX288078 Sequence	c 362	15	1.0	19	6	AR172749	AR172749 Sequence
c 290	15.4	1.1	29	6	I16021	I16021 Sequence 24	c 363	15	1.0	19	6	AR172750	AR172750 Sequence
c 291	15.4	1.1	30	6	A11500	A11500 Nucleotide	364	15	1.0	21	6	AX096129	AX096129 Sequence
c 292	15.4	1.1	30	6	A17053	A17053 oligonucleo	365	15	1.0	21	6	AX211726	AX211726 Sequence

c 366	15	1.0	23	6	A50973	A50973 Sequence 14	c 439	15	1.0	30	6	I28814	I28814 Sequence 42
c 367	15	1.0	23	6	A62488	A62488 Sequence 3	c 440	15	1.0	30	6	I61251	I61251 Sequence 58
c 368	15	1.0	23	6	AR091402	AR091402 Sequence	c 441	15	1.0	30	6	I61266	I61266 Sequence 73
c 369	15	1.0	23	6	AR137774	AR137774 Sequence	c 442	15	1.0	30	6	I85668	I85668 Sequence 17
c 370	15	1.0	23	6	AX353421	AX353421 Sequence	c 443	15	1.0	30	6	I86662	I86662 Sequence 2
c 371	15	1.0	23	23	E10826	E10826 FIRC label1	c 444	14.8	1.0	18	6	AR098952	AR098952 Sequence
c 372	15	1.0	24	6	A61814	A61814 Sequence 37	c 445	14.8	1.0	18	6	AX009037	AX009037 Sequence
c 373	15	1.0	24	6	AR088698	AR088698 Sequence	c 446	14.8	1.0	18	6	I79792	I79792 Sequence 88
c 374	15	1.0	24	6	AX234362	AX234362 Sequence	c 447	14.8	1.0	19	6	AX259832	AX259832 Sequence
c 375	15	1.0	24	6	AX289825	AX289825 Sequence	c 448	14.8	1.0	19	6	AX259833	AX259833 Sequence
c 376	15	1.0	24	6	AX300811	AX300811 Sequence	c 449	14.8	1.0	20	6	A97469	A97469 Sequence 25
c 377	15	1.0	24	6	I68927	I68927 Sequence 19	c 450	14.8	1.0	20	6	AR036620	AR036620 Sequence
c 378	15	1.0	25	6	A24349	A24349 oligonucleo	c 451	14.8	1.0	20	6	AR079640	AR079640 Sequence
c 379	15	1.0	25	6	A24350	A24350 oligonucleo	c 452	14.8	1.0	20	6	AR102403	AR102403 Sequence
c 380	15	1.0	25	6	AR037810	AR037810 Sequence	c 453	14.8	1.0	20	6	AR172896	AR172896 Sequence
c 381	15	1.0	25	6	AR071197	AR071197 Sequence	c 454	14.8	1.0	20	6	AX009042	AX009042 Sequence
c 382	15	1.0	25	6	AR071200	AR071200 Sequence	c 455	14.8	1.0	20	6	AX304783	AX304783 Sequence
c 383	15	1.0	25	6	AX042439	AX042439 Sequence	c 456	14.8	1.0	20	6	AX317899	AX317899 Sequence
c 384	15	1.0	25	6	AX042441	AX042441 Sequence	c 457	14.8	1.0	20	6	BD006253	BD006253 Antisense
c 385	15	1.0	25	6	AX042470	AX042470 Sequence	c 458	14.8	1.0	20	6	E30816	E30816 Novel prote
c 386	15	1.0	25	6	I32643	I32643 Sequence 28	c 459	14.8	1.0	20	6	I19371	I19371 Sequence 3
c 387	15	1.0	25	6	I68678	I68678 Sequence 43	c 460	14.8	1.0	21	6	A23914	A23914 TGF-beta hy
c 388	15	1.0	26	6	AX279018	AX279018 Sequence	c 461	14.8	1.0	21	6	A23915	A23915 TGF-beta hy
c 389	15	1.0	27	6	AR044492	AR044492 Sequence	c 462	14.8	1.0	22	6	AR044737	AR044737 Sequence
c 390	15	1.0	27	6	AR048856	AR048856 Sequence	c 463	14.8	1.0	22	6	AR052384	AR052384 Sequence
c 391	15	1.0	27	6	AR144855	AR144855 Sequence	c 464	14.8	1.0	22	6	AR055182	AR055182 Sequence
c 392	15	1.0	27	6	AX191944	AX191944 Sequence	c 465	14.8	1.0	22	6	AR158053	AR158053 Sequence
c 393	15	1.0	27	6	E08372	E08372 Primer for	c 466	14.8	1.0	22	6	I92533	I92533 Sequence 59
c 394	15	1.0	27	6	I32411	I32411 Sequence 6	c 467	14.8	1.0	24	6	A63162	A63162 Sequence 5
c 395	15	1.0	27	6	I86895	I86895 Sequence 1	c 468	14.8	1.0	24	6	AR118862	AR118862 Sequence
c 396	15	1.0	27	10	MUSTCGXBF	M55950 Mouse T-cel	c 469	14.8	1.0	24	6	AX055413	AX055413 Sequence
c 397	15	1.0	27	10	MUSTCGXBL	M55956 Mouse T-cel	c 470	14.8	1.0	24	6	AX074392	AX074392 Sequence
c 398	15	1.0	28	6	AR024077	AR024077 Sequence	c 471	14.8	1.0	24	6	AX077060	AX077060 Sequence
c 399	15	1.0	28	6	AR176566	AR176566 Sequence	c 472	14.8	1.0	24	6	AX116242	AX116242 Sequence
c 400	15	1.0	28	6	AX350015	AX350015 Sequence	c 473	14.8	1.0	24	6	AX150816	AX150816 Sequence
c 401	15	1.0	28	6	BD001181	BD001181 Method an	c 474	14.8	1.0	25	6	AX189393	AX189393 Sequence
c 402	15	1.0	28	6	BD001610	BD001610 Method an	c 475	14.8	1.0	26	6	A27957	A27957 Human TCR V
c 403	15	1.0	29	6	AR038878	AR038878 Sequence	c 476	14.8	1.0	26	6	A31628	A31628 Synthetic h
c 404	15	1.0	29	6	AR176576	AR176576 Sequence	c 477	14.8	1.0	26	6	AR078421	AR078421 Sequence
c 405	15	1.0	29	6	AX268240	AX268240 Sequence	c 478	14.8	1.0	26	6	AX005876	AX005876 Sequence
c 406	15	1.0	29	6	AX350126	AX350126 Sequence	c 479	14.8	1.0	26	6	AX033455	AX033455 Sequence
c 407	15	1.0	30	6	A21016	A21016 oligonucleo	c 480	14.8	1.0	26	6	AX224712	AX224712 Sequence
c 408	15	1.0	30	6	A38418	A38418 Sequence 9	c 481	14.8	1.0	26	6	AX235192	AX235192 Sequence
c 409	15	1.0	30	6	A39952	A39952 Sequence 9	c 482	14.8	1.0	27	6	A28838	A28838 DNA constru
c 410	15	1.0	30	6	AR028197	AR028197 Sequence	c 483	14.8	1.0	27	6	A36932	A36932 Sequence 19
c 411	15	1.0	30	6	AR035990	AR035990 Sequence	c 484	14.8	1.0	27	6	A36933	A36933 Sequence 20
c 412	15	1.0	30	6	AR049410	AR049410 Sequence	c 485	14.8	1.0	27	6	AR039758	AR039758 Sequence
c 413	15	1.0	30	6	AR054423	AR054423 Sequence	c 486	14.8	1.0	27	6	AR068376	AR068376 Sequence
c 414	15	1.0	30	6	AR063332	AR063332 Sequence	c 487	14.8	1.0	27	6	AR099333	AR099333 Sequence
c 415	15	1.0	30	6	AR075227	AR075227 Sequence	c 488	14.8	1.0	27	6	AR121800	AR121800 Sequence
c 416	15	1.0	30	6	AR075242	AR075242 Sequence	c 489	14.8	1.0	27	6	AR150555	AR150555 Sequence
c 417	15	1.0	30	6	AR084473	AR084473 Sequence	c 490	14.8	1.0	27	6	AR177202	AR177202 Sequence
c 418	15	1.0	30	6	AR110771	AR110771 Sequence	c 491	14.8	1.0	27	6	AX268916	AX268916 Sequence
c 419	15	1.0	30	6	AR138600	AR138600 Sequence	c 492	14.8	1.0	27	6	BD000822	BD000822 Amplifica
c 420	15	1.0	30	6	AR152639	AR152639 Sequence	c 493	14.8	1.0	27	6	I63507	I63507 Sequence 8
c 421	15	1.0	30	6	AR152654	AR152654 Sequence	c 494	14.8	1.0	28	6	AX280435	AX280435 Sequence
c 422	15	1.0	30	6	AR169080	AR169080 Sequence	c 495	14.8	1.0	28	6	E49184	E49184 Aromatic am
c 423	15	1.0	30	6	AR172372	AR172372 Sequence	c 496	14.8	1.0	28	6	E55114	E55114 DNA encodin
c 424	15	1.0	30	6	AR176633	AR176633 Sequence	c 497	14.8	1.0	29	6	AR061350	AR061350 Sequence
c 425	15	1.0	30	6	AX036133	AX036133 Sequence	c 498	14.8	1.0	29	6	AR072438	AR072438 Sequence
c 426	15	1.0	30	6	AX082627	AX082627 Sequence	c 499	14.8	1.0	29	6	AR081740	AR081740 Sequence
c 427	15	1.0	30	6	AX268518	AX268518 Sequence	c 500	14.8	1.0	29	6	AR108249	AR108249 Sequence
c 428	15	1.0	30	6	AX280502	AX280502 Sequence	c 501	14.8	1.0	29	6	AR128049	AR128049 Sequence
c 429	15	1.0	30	6	AX323331	AX323331 Sequence	c 502	14.8	1.0	29	6	AR128051	AR128051 Sequence
c 430	15	1.0	30	6	E27931	E27931 DNA encodin	c 503	14.8	1.0	29	6	AR161635	AR161635 Sequence
c 431	15	1.0	30	6	E27933	E27933 DNA encodin	c 504	14.8	1.0	29	6	AR167972	AR167972 Sequence
c 432	15	1.0	30	6	I05684	I05684 Sequence 35	c 505	14.8	1.0	29	6	AX288078	AX288078 Sequence
c 433	15	1.0	30	6	I13608	I13608 Sequence 14	c 506	14.8	1.0	29	6	BD004852	BD004852 Antisense
c 434	15	1.0	30	6	I26096	I26096 Sequence 22	c 507	14.8	1.0	29	6	I16206	I16206 Sequence 32
c 435	15	1.0	30	6	I28798	I28798 Sequence 9	c 508	14.8	1.0	29	6	I26549	I26549 Sequence 24
c 436	15	1.0	30	6	I28808	I28808 Sequence 30	c 509	14.8	1.0	29	6	I66692	I66692 Sequence 32
c 437	15	1.0	30	6	I28810	I28810 Sequence 34	c 510	14.8	1.0	29	6	I84786	I84786 Sequence 32
c 438	15	1.0	30	6	I28812	I28812 Sequence 38	c 511	14.8	1.0	30	6	A46138	A46138 Sequence 33

c 512	14.8	1.0	30	6	AR012287	Sequence	585	14.6	1.0	26	6	AX280493	AX280493 Sequence
c 513	14.8	1.0	30	6	AR120969	Sequence	c 586	14.6	1.0	26	6	AX306910	AX306910 Sequence
c 514	14.8	1.0	30	6	AR151394	Sequence	c 587	14.6	1.0	26	6	E16263	E16263 Primer, 7/1
c 515	14.8	1.0	30	6	AX019149	Sequence	588	14.6	1.0	26	6	I51767	I51767 Sequence 35
c 516	14.8	1.0	30	6	AX035480	Sequence	589	14.6	1.0	26	6	I84367	I84367 Sequence 25
c 517	14.8	1.0	30	6	AX047295	Sequence	c 590	14.6	1.0	27	6	A83873	A83873 Sequence 8
c 518	14.8	1.0	30	6	AX056853	Sequence	c 591	14.6	1.0	27	6	AR084666	AR084666 Sequence
c 519	14.8	1.0	30	6	AX207312	Sequence	c 592	14.6	1.0	27	6	AR150654	AR150654 Sequence
c 520	14.8	1.0	30	6	AX250307	Sequence	c 593	14.6	1.0	27	6	AX004277	AX004277 Sequence
c 521	14.8	1.0	30	6	AX250348	Sequence	c 594	14.6	1.0	27	6	AX099675	AX099675 Sequence
c 522	14.8	1.0	30	6	BD004284	Apo E hum	c 595	14.6	1.0	27	6	E16203	E16203 Primer, 7/1
c 523	14.8	1.0	30	6	BD004286	Sequence	c 596	14.6	1.0	27	6	E27229	E27229 Novel physi
c 524	14.8	1.0	30	6	E32127	Soluble fus	c 597	14.6	1.0	27	6	E28287	E28287 Utilization
c 525	14.8	1.0	30	6	E49572	Novel micro	c 598	14.6	1.0	27	9	S81367	S81367 T cell anti
c 526	14.8	1.0	30	6	E55287	Novel metal	599	14.6	1.0	28	6	A47738	A47738 Sequence 2
c 527	14.8	1.0	30	6	I00580	Sequence 2	600	14.6	1.0	28	6	AR019409	AR019409 Sequence
c 528	14.8	1.0	30	6	I12899	Sequence 6	c 601	14.6	1.0	28	6	AR088982	AR088982 Sequence
c 529	14.8	1.0	30	6	I14985	Sequence 71	602	14.6	1.0	28	6	AR090997	AR090997 Sequence
c 530	14.8	1.0	30	6	I34173	Sequence 19	c 603	14.6	1.0	28	6	AR120160	AR120160 Sequence
c 531	14.8	1.0	30	6	I34577	Sequence 6	c 604	14.6	1.0	28	6	AR135333	AR135333 Sequence
c 532	14.8	1.0	30	6	I36528	Sequence 6	c 605	14.6	1.0	28	6	AR141110	AR141110 Sequence
c 533	14.8	1.0	30	6	I39859	Sequence 19	c 606	14.6	1.0	28	6	AR152402	AR152402 Sequence
c 534	14.8	1.0	30	6	I60539	Sequence 19	c 607	14.6	1.0	28	6	AX048228	AX048228 Sequence
c 535	14.8	1.0	30	6	I65268	Sequence 19	c 608	14.6	1.0	28	6	AX049389	AX049389 Sequence
c 536	14.8	1.0	30	6	I73705	Sequence 71	c 609	14.6	1.0	28	6	AX052727	AX052727 Sequence
c 537	14.8	1.0	30	6	I76284	Sequence 6	c 610	14.6	1.0	28	6	AX053170	AX053170 Sequence
c 538	14.8	1.0	30	9	HS313330	Homo sapi	611	14.6	1.0	28	6	AX146496	AX146496 Sequence
c 539	14.6	1.0	21	6	AR022121	Sequence	c 612	14.6	1.0	28	6	AX236606	AX236606 Sequence
c 540	14.6	1.0	21	6	AR044482	Sequence	c 613	14.6	1.0	28	6	AX268058	AX268058 Sequence
c 541	14.6	1.0	21	6	AR091441	Sequence	614	14.6	1.0	29	6	A06418	A06418 Phosphoryla
c 542	14.6	1.0	21	6	AR107110	Sequence	615	14.6	1.0	29	6	A10237	A10237 mutagenic o
c 543	14.6	1.0	21	6	AR122333	Sequence	c 616	14.6	1.0	29	6	AR145878	AR145878 Sequence
c 544	14.6	1.0	21	6	AR122333	Sequence	617	14.6	1.0	29	6	AR146661	AR146661 Sequence
c 545	14.6	1.0	21	6	AR166675	Sequence	618	14.6	1.0	29	6	AX032987	AX032987 Sequence
c 546	14.6	1.0	21	6	AR177591	Sequence	619	14.6	1.0	29	6	AX068398	AX068398 Sequence
c 547	14.6	1.0	21	6	AX191769	Sequence	620	14.6	1.0	29	6	AX203787	AX203787 Sequence
c 548	14.6	1.0	21	6	I27510	Sequence 24	c 621	14.6	1.0	29	6	AX236529	AX236529 Sequence
c 549	14.6	1.0	21	6	I46948	Sequence 41	c 622	14.6	1.0	29	6	AX236540	AX236540 Sequence
c 550	14.6	1.0	22	6	AR053117	Sequence	623	14.6	1.0	29	6	AX259909	AX259909 Sequence
c 551	14.6	1.0	22	6	AR078708	Sequence	624	14.6	1.0	29	6	AX262258	AX262258 Sequence
c 552	14.6	1.0	22	6	AX350154	Sequence	c 625	14.6	1.0	29	6	I40381	I40381 Sequence 14
c 553	14.6	1.0	23	1	S58557	trNA(GCAla	626	14.6	1.0	29	6	I62375	I62375 Sequence 21
c 554	14.6	1.0	23	6	AX029415	Sequence 27	c 627	14.6	1.0	29	6	I82242	I82242 Sequence 23
c 555	14.6	1.0	24	6	A50806	Sequence 27	c 628	14.6	1.0	29	6	I90776	I90776 Sequence 23
c 556	14.6	1.0	24	6	A57536	Sequence 28	c 629	14.6	1.0	30	6	A03926	A03926 Nucleotide
c 557	14.6	1.0	24	6	AR105037	Sequence	c 630	14.6	1.0	30	6	A03937	A03937 Nucleotide
c 558	14.6	1.0	24	6	AR107942	Sequence	c 631	14.6	1.0	30	6	A38420	A38420 Sequence 11
c 559	14.6	1.0	24	6	AR109997	Sequence	c 632	14.6	1.0	30	6	AR012225	AR012225 Sequence
c 560	14.6	1.0	24	6	AR174895	Sequence	c 633	14.6	1.0	30	6	AR118760	AR118760 Sequence
c 561	14.6	1.0	24	6	AR175553	Sequence	c 634	14.6	1.0	30	6	AR142063	AR142063 Sequence
c 562	14.6	1.0	24	6	AX060777	Sequence	c 635	14.6	1.0	30	6	AX036135	AX036135 Sequence
c 563	14.6	1.0	24	6	AX107818	Sequence	636	14.6	1.0	30	6	AX068298	AX068298 Sequence
c 564	14.6	1.0	24	6	AX107819	Sequence	637	14.6	1.0	30	6	AX068961	AX068961 Sequence
c 565	14.6	1.0	24	6	AX278277	Sequence	638	14.6	1.0	30	6	AX105609	AX105609 Sequence
c 566	14.6	1.0	24	6	AX291349	Sequence	639	14.6	1.0	30	6	AX110804	AX110804 Sequence
c 567	14.6	1.0	24	6	I13982	Sequence 1	c 640	14.6	1.0	30	6	AX113379	AX113379 Sequence
c 568	14.6	1.0	24	6	I15081	Sequence 4	c 641	14.6	1.0	30	6	AX116759	AX116759 Sequence
c 569	14.6	1.0	25	6	AR144353	Sequence	642	14.6	1.0	30	6	AX191285	AX191285 Sequence
c 570	14.6	1.0	25	6	AR162808	Sequence	643	14.6	1.0	30	6	AX233628	AX233628 Sequence
c 571	14.6	1.0	25	6	AR164345	Sequence	644	14.6	1.0	30	6	AX280449	AX280449 Sequence
c 572	14.6	1.0	25	6	AX042474	Sequence	645	14.6	1.0	30	6	BD009707	BD009707 A small v
c 573	14.6	1.0	25	6	AX116580	Sequence	646	14.6	1.0	30	6	BD010832	BD010832 Novel pol
c 574	14.6	1.0	25	6	AX146499	Sequence	c 647	14.6	1.0	30	6	E04648	E04648 Synthetic n
c 575	14.6	1.0	25	6	AX279019	Sequence	c 648	14.6	1.0	30	6	E04979	E04979 DNA sequenc
c 576	14.6	1.0	25	6	AX298057	Sequence	649	14.6	1.0	30	6	E50446	E50446 Odoriferous
c 577	14.6	1.0	25	6	E32952	Novel xanth	650	14.6	1.0	30	6	E64329	E64329 Method for
c 578	14.6	1.0	25	6	I05879	Sequence 5	c 651	14.6	1.0	30	6	I06392	I06392 Sequence 12
c 579	14.6	1.0	25	6	I06814	Sequence 24	c 652	14.6	1.0	30	6	I21236	I21236 Sequence 11
c 580	14.6	1.0	25	6	I41343	Sequence 14	c 653	14.6	1.0	30	6	I25881	I25881 Sequence 11
c 581	14.6	1.0	25	6	I49091	Sequence 14	c 654	14.6	1.0	30	6	I26274	I26274 Sequence 11
c 582	14.6	1.0	26	6	AR050966	Sequence	655	14.6	1.0	30	6	I31689	I31689 Sequence 6
c 583	14.6	1.0	26	6	AR090860	Sequence	c 656	14.6	1.0	30	6	I43867	I43867 Sequence 2
c 584	14.6	1.0	26	6	AX081470	Sequence	c 657	14.6	1.0	30	6	I59930	I59930 Sequence 57

c 658	14.6	1.0	30	6	I62700	I62700 Sequence 8	c 731	14.4	1.0	25	6	AX236896	AX236896 Sequence
c 659	14.6	1.0	30	6	I71901	I71901 Sequence 5	732	14.4	1.0	25	6	AX239790	AX239790 Sequence
c 660	14.6	1.0	30	6	I73379	I73379 Sequence 4	c 733	14.4	1.0	25	6	AX239790	AX239790 Sequence
c 661	14.6	1.0	30	6	I78509	I78509 Sequence 4	734	14.4	1.0	25	6	AX279163	AX279163 Sequence
c 662	14.6	1.0	30	6	I86788	I86788 Sequence 57	c 735	14.4	1.0	25	6	BD011138	BD011138 Human tel
c 663	14.6	1.0	30	6	I95813	I95813 Sequence 57	c 736	14.4	1.0	25	6	E36887	E36887 Human telom
664	14.4	1.0	17	6	A27314	A27314 Synthetic b	737	14.4	1.0	25	6	E38255	E38255 Hyperthermo
665	14.4	1.0	17	6	A79453	A79453 Sequence 27	738	14.4	1.0	25	6	E50832	E50832 Hyperthermo
666	14.4	1.0	17	6	A99246	A99246 Sequence 22	739	14.4	1.0	25	6	AR008926	AR008926 Sequence
667	14.4	1.0	17	6	AR105858	AR105858 Sequence	740	14.4	1.0	26	6	AR086735	AR086735 Sequence
c 668	14.4	1.0	17	6	AX216347	AX216347 Sequence	741	14.4	1.0	26	6	AR087621	AR087621 Sequence
c 669	14.4	1.0	17	6	AX216895	AX216895 Sequence	742	14.4	1.0	26	6	AR087899	AR087899 Sequence
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c 671	14.4	1.0	17	6	AX272812	AX272812 Sequence	c 744	14.4	1.0	26	6	AR090530	AR090530 Sequence
672	14.4	1.0	19	6	AX132651	AX132651 Sequence	745	14.4	1.0	26	6	AR160519	AR160519 Sequence
673	14.4	1.0	20	6	A51169	A51169 Sequence 38	c 746	14.4	1.0	26	6	AX029021	AX029021 Sequence
674	14.4	1.0	20	6	A76994	A76994 Sequence 38	c 747	14.4	1.0	26	6	AX029022	AX029022 Sequence
675	14.4	1.0	20	6	AR095643	AR095643 Sequence	748	14.4	1.0	26	6	I80117	I80117 Sequence 6
676	14.4	1.0	20	6	I83630	I83630 Sequence 4	749	14.4	1.0	26	6	I80181	I80181 Sequence 70
c 677	14.4	1.0	20	12	ASE287245	AJ287245 Artificia	750	14.4	1.0	27	6	A03889	A03889 Synthetic D
678	14.4	1.0	21	6	AX006366	AX006366 Sequence	c 751	14.4	1.0	27	6	A03890	A03890 Synthetic D
679	14.4	1.0	21	6	AX077316	AX077316 Sequence	752	14.4	1.0	27	6	A31430	A31430 pSA302 DNA
680	14.4	1.0	21	6	AX095287	AX095287 Sequence	c 753	14.4	1.0	27	6	A31431	A31431 pSA302 DNA
681	14.4	1.0	21	6	AX096267	AX096267 Sequence	754	14.4	1.0	27	6	A58249	A58249 Sequence 11
682	14.4	1.0	21	6	AX096784	AX096784 Sequence	c 755	14.4	1.0	27	6	A58250	A58250 Sequence 12
683	14.4	1.0	21	6	AX096906	AX096906 Sequence	756	14.4	1.0	27	6	A92218	A92218 Sequence 20
684	14.4	1.0	21	6	AX164074	AX164074 Sequence	757	14.4	1.0	27	6	AR014496	AR014496 Sequence
685	14.4	1.0	21	6	AX283158	AX283158 Sequence	c 758	14.4	1.0	27	6	AR027735	AR027735 Sequence
c 686	14.4	1.0	21	6	I39880	I39880 Sequence 10	c 759	14.4	1.0	27	6	AR028784	AR028784 Sequence
687	14.4	1.0	21	6	I44730	I44730 Sequence 9	760	14.4	1.0	27	6	AR029610	AR029610 Sequence
c 688	14.4	1.0	22	6	A46045	A46045 Sequence 34	c 761	14.4	1.0	27	6	AR037001	AR037001 Sequence
c 689	14.4	1.0	22	6	A57081	A57081 Sequence 34	c 762	14.4	1.0	27	6	AR071717	AR071717 Sequence
c 690	14.4	1.0	22	6	A60146	A60146 Sequence 34	c 763	14.4	1.0	27	6	AR143831	AR143831 Sequence
c 691	14.4	1.0	22	6	A79496	A79496 Sequence 34	764	14.4	1.0	27	6	AR177837	AR177837 Sequence
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c 695	14.4	1.0	22	6	AR036223	AR036223 Sequence	768	14.4	1.0	27	6	AX299905	AX299905 Sequence
c 696	14.4	1.0	22	6	AR036743	AR036743 Sequence	769	14.4	1.0	27	6	BD007496	BD007496 Secretary
c 697	14.4	1.0	22	6	AR077005	AR077005 Sequence	c 770	14.4	1.0	27	6	E12636	E12636 DNA oligome
c 698	14.4	1.0	22	6	AR094726	AR094726 Sequence	c 771	14.4	1.0	27	6	E14188	E14188 PCR primer
c 699	14.4	1.0	23	6	AX354967	AX354967 Sequence	772	14.4	1.0	27	6	E36204	E36204 Process for
700	14.4	1.0	24	6	A82362	A82362 Sequence 5	c 773	14.4	1.0	27	6	I30045	I30045 Sequence 20
701	14.4	1.0	24	6	AX207499	AX207499 Sequence	774	14.4	1.0	27	10	MMBR170	X94863 M.musculus
702	14.4	1.0	24	6	AX278867	AX278867 Sequence	775	14.4	1.0	28	6	AR044105	AR044105 Sequence
703	14.4	1.0	24	6	AX288919	AX288919 Sequence	c 776	14.4	1.0	28	6	AR090191	AR090191 Sequence
704	14.4	1.0	24	6	AX289891	AX289891 Sequence	c 777	14.4	1.0	28	6	AR091119	AR091119 Sequence
705	14.4	1.0	24	6	AX231817	AX231817 Sequence	c 778	14.4	1.0	28	6	AX040164	AX040164 Sequence
706	14.4	1.0	24	6	E30197	E30197 DNA associa	779	14.4	1.0	28	23	E09559	E09559 primer, 9/2
c 707	14.4	1.0	24	6	I43075	I43075 Sequence 58	780	14.4	1.0	29	6	A67702	A67702 Sequence 32
c 708	14.4	1.0	24	9	HSOP3B	X72128 H.sapiens (	781	14.4	1.0	29	6	AR027939	AR027939 Sequence
709	14.4	1.0	25	6	AR061762	AR061762 Sequence	782	14.4	1.0	29	6	AR071298	AR071298 Sequence
710	14.4	1.0	25	6	AR062003	AR062003 Sequence	783	14.4	1.0	29	6	AR108731	AR108731 Sequence
c 711	14.4	1.0	25	6	AR071195	AR071195 Sequence	784	14.4	1.0	29	6	AX099568	AX099568 Sequence
c 712	14.4	1.0	25	6	AR071196	AR071196 Sequence	785	14.4	1.0	29	6	E26547	E26547 DTSDT gene
713	14.4	1.0	25	6	AR071198	AR071198 Sequence	c 786	14.4	1.0	29	6	I08866	I08866 Sequence 7
714	14.4	1.0	25	6	AR071199	AR071199 Sequence	787	14.4	1.0	29	6	I59512	I59512 Sequence 19
715	14.4	1.0	25	6	AR081762	AR081762 Sequence	788	14.4	1.0	30	6	A02530	A02530 Nucleotide
c 716	14.4	1.0	25	6	AR090259	AR090259 Sequence	789	14.4	1.0	30	6	A02541	A02541 Nucleotide
c 717	14.4	1.0	25	6	AR091048	AR091048 Sequence	c 790	14.4	1.0	30	6	A02706	A02706 Synthetic o
718	14.4	1.0	25	6	AR167994	AR167994 Sequence	c 791	14.4	1.0	30	6	A11504	A11504 Nucleotide
719	14.4	1.0	25	6	AX005969	AX005969 Sequence	c 792	14.4	1.0	30	6	A11506	A11506 Nucleotide
720	14.4	1.0	25	6	AX042658	AX042658 Sequence	c 793	14.4	1.0	30	6	A11507	A11507 Nucleotide
721	14.4	1.0	25	6	AX042675	AX042675 Sequence	c 794	14.4	1.0	30	6	A11508	A11508 Nucleotide
c 722	14.4	1.0	25	6	AX043077	AX043077 Sequence	c 795	14.4	1.0	30	6	A11510	A11510 Nucleotide
723	14.4	1.0	25	6	AX043365	AX043365 Sequence	c 796	14.4	1.0	30	6	A11511	A11511 Nucleotide
724	14.4	1.0	25	6	AX043400	AX043400 Sequence	797	14.4	1.0	30	6	A12586	A12586 oligonucleo
c 725	14.4	1.0	25	6	AX067189	AX067189 Sequence	c 798	14.4	1.0	30	6	A42937	A42937 Sequence 7
726	14.4	1.0	25	6	AX128280	AX128280 Sequence	c 799	14.4	1.0	30	6	A51212	A51212 Sequence 14
727	14.4	1.0	25	6	AX236602	AX236602 Sequence	c 800	14.4	1.0	30	6	A52378	A52378 Sequence 6
c 728	14.4	1.0	25	6	AX236602	AX236602 Sequence	c 801	14.4	1.0	30	6	A93352	A93352 Sequence 3
729	14.4	1.0	25	6	AX236640	AX236640 Sequence	c 802	14.4	1.0	30	6	AR000090	AR000090 Sequence
730	14.4	1.0	25	6	AX236896	AX236896 Sequence	c 803	14.4	1.0	30	6	AR011994	AR011994 Sequence

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805	14.4	1.0	30	6	AR049370	Sequence	AR049370	Sequence	14.2	1.0	21	6	AR148291	Sequence
806	14.4	1.0	30	6	AR061348	Sequence	AR061348	Sequence	14.2	1.0	21	6	AX027266	Sequence
807	14.4	1.0	30	6	AR063928	Sequence	AR063928	Sequence	14.2	1.0	21	6	AX047702	Sequence
808	14.4	1.0	30	6	AR064913	Sequence	AR064913	Sequence	14.2	1.0	21	6	AX047710	Sequence
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813	14.4	1.0	30	6	AR125801	Sequence	AR125801	Sequence	14.2	1.0	21	6	AX203596	Sequence
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825	14.4	1.0	30	6	AX253362	Sequence	AX253362	Sequence	14.2	1.0	21	6	BD010889	Polynucle
826	14.4	1.0	30	6	AX278367	Sequence	AX278367	Sequence	14.2	1.0	21	6	BD010889	Polynucle
827	14.4	1.0	30	6	AX280709	Sequence	AX280709	Sequence	14.2	1.0	21	6	BD010889	Polynucle
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834	14.4	1.0	30	6	I12033	Sequence	I12033	Sequence	14.2	1.0	21	6	BD010889	Polynucle
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856	14.2	1.0	20	6	AR124487	Sequence	AR124487	Sequence	14.2	1.0	21	6	BD010889	Polynucle
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858	14.2	1.0	20	6	AR129474	Sequence	AR129474	Sequence	14.2	1.0	21	6	BD010889	Polynucle
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968 14.2 1.0 28 6 A00054 Nucleotide  
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c 992 14.2 1.0 29 6 I82254 Sequence 42  
c 993 14.2 1.0 29 6 I82258 Sequence 48  
c 994 14.2 1.0 29 6 I90788 Sequence 42  
c 995 14.2 1.0 29 6 I90792 Sequence 48  
c 996 14.2 1.0 30 6 A02531 Nucleotide  
c 997 14.2 1.0 30 6 A02542 Nucleotide  
c 998 14.2 1.0 30 6 A17723 Nucleotide  
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c1000 14.2 1.0 30 6 A23466 Oligonucleo

## ALIGNMENTS

RESULT 1  
AR091086/c 28 bp DNA linear PAT 07-SEP-2000  
LOCUS AR091086 Sequence 1206 from patent US 5994076.  
DEFINITION AR091086  
ACCESSION AR091086  
VERSION AR091086.1 GI:10017841  
KEYWORDS  
SOURCE  
ORGANISM Unknown.  
REFERENCE Unclassified.  
1 (bases 1 to 28)

REFERENCE  
AUTHORS Chenchik,A., Jolkhadze,G. and Bibilashvilli,R.  
TITLE Methods of assaying differential expression  
JOURNAL Patent: US 5994076-A 1206 30-NOV-1999;  
FEATURES Location/Qualifiers  
source 1..28  
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BASE COUNT 10 a 7 c 6 g 5 t  
ORIGIN  
Query Match 2.0%; Score 28; DB 6; Length 28;  
Best Local Similarity 100.0%; Pred. No. 7.8e+05;  
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1285 atgaagcacccttgatctttgtgtcctg 1312  
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Db 28 ATGAAGCACCCTTGATCTTTGGTGTCTCG 1  
RESULT 2  
AR091085  
LOCUS AR091085 26 bp DNA linear PAT 07-SEP-2000  
DEFINITION AR091085 Sequence 1205 from patent US 5994076.  
ACCESSION AR091085  
VERSION AR091085.1 GI:10017840  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE Unclassified.  
1 (bases 1 to 26)  
AUTHORS Chenchik,A., Jolkhadze,G. and Bibilashvilli,R.  
TITLE Methods of assaying differential expression  
JOURNAL Patent: US 5994076-A 1205 30-NOV-1999;  
FEATURES Location/Qualifiers  
source 1..26  
/organism="unknown"  
BASE COUNT 5 a 4 c 10 g 7 t  
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Query Match 1.8%; Score 26; DB 6; Length 26;  
Best Local Similarity 100.0%; Pred. No. 1.6e+06;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1009 tggagaacctggatggccttagggtt 1034  
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Db 1 TGGAGAACCTGGATGGCCTTAGGGTT 26

RESULT 3  
AR098748/c 22 bp DNA linear PAT 14-FEB-2001  
LOCUS AR098748  
DEFINITION AR098748 Sequence 3 from patent US 6077672.  
ACCESSION AR098748  
VERSION AR098748.1 GI:12808514  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE Unclassified.  
1 (bases 1 to 22)  
AUTHORS Montal,B.P. and Cowsert,L.M.  
TITLE Antisense modulation of TRADD expression  
JOURNAL Patent: US 6077672-A 3 20-JUN-2000;  
FEATURES Location/Qualifiers  
source 1..22  
/organism="unknown"  
BASE COUNT 4 a 8 c 3 g 7 t  
ORIGIN

Query Match 1.5%; Score 22; DB 6; Length 22;  
Best Local Similarity 100.0%; Pred. No. 6.4e+06;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 494 atgaagaactggctgagctgga 515  
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Db 22 ATGAAGAAGCTGGCTGAGCTGGA 1



BASE COUNT	0 a	20 c	10 g	0 t
ORIGIN				

RESULT 13  
R084582/C



LOCUS AR084582 21 bp DNA linear PAT 01-SEP-2000  
DEFINITION Sequence 71 from patent US 5981185.  
ACCESSION AR084582  
VERSION AR084582.1 GI:10011353  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.  
TITLE Oligonucleotide repeat arrays  
JOURNAL Patent: US 5981185-A 71 09-NOV-1999;  
FEATURES Location/Qualifiers  
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BASE COUNT 0 a 7 c 14 g 0 t  
ORIGIN

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Best Local Similarity 95.2%; Pred. No. 1.6e+07;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 621 gccgcgcgcgcgcgcgcacc 641  
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AR093142/c  
LOCUS AR093142 21 bp DNA linear PAT 08-SEP-2000  
DEFINITION Sequence 11 from patent US 5998596.  
ACCESSION AR093142  
VERSION AR093142.1 GI:10019894  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Bergan,R. and Neckers,L.  
TITLE Inhibition of protein kinase activity by aptameric action of oligonucleotides  
JOURNAL Patent: US 5998596-A 11 07-DEC-1999;  
FEATURES Location/Qualifiers  
source 1..21  
BASE COUNT 0 a 7 c 14 g 0 t  
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Query Match 1.4%; Score 19.4; DB 6; Length 21;  
Best Local Similarity 95.2%; Pred. No. 1.6e+07;  
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Db 21 GCCGCGCGCGCGCGCGCGCC 1

RESULT 15  
AR078307/c  
LOCUS AR078307 24 bp DNA linear PAT 31-AUG-2000  
DEFINITION Sequence 17 from patent US 5962332.  
ACCESSION AR078307  
VERSION AR078307.1 GI:10005053  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 24)  
AUTHORS Singer,R.H. and Taneja,K.L.  
TITLE Detection of trinucleotide repeats by in situ hybridization  
JOURNAL Patent: US 5962332-A 17 05-OCT-1999;

FEATURES  
source  
Location/Qualifiers  
1..24  
BASE COUNT 0 a 6 c 14 g 2 t 2 others  
ORIGIN  
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Best Local Similarity 90.9%; Pred. No. 1.5e+07;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
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|||||  
Db 24 ANCCGCGCGCGCGCGCGCC 3  
Search completed: August 18, 2002, 19:08:00  
Job time: 6780 sec

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GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: August 18, 2002, 17:13:55 ; Search time 1596.21 Seconds  
(without alignments)  
12133.824 Million cell updates/sec

Title: US-09-763-748-1

Perfect score: 1435

Sequence: 1 ctggcggcgctgggaaccca.....gataataagataacacgg 1435

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 28088

Minimum DB seq length: 0

Maximum DB seq length: 30

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

EST: \*

1: em\_estba: \*  
2: em\_esthum: \*  
3: em\_estin: \*  
4: em\_estin: \*  
5: em\_estov: \*  
6: em\_estpl: \*  
7: em\_estro: \*  
8: em\_htc: \*  
9: gb\_est1: \*  
10: gb\_est2: \*  
11: gb\_htc: \*  
12: gb\_gss: \*  
13: em\_gss\_hum: \*  
14: em\_gss\_inv: \*  
15: em\_gss\_pln: \*  
16: em\_gss\_vrt: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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C 2	17.2	1.2	23	12	AZ324328 1M0046B16
C 3	17	1.2	25	12	AZ788441 2M0035F06
C 4	16.2	1.1	22	9	A1664440 ue62c03.r
C 5	16	1.1	30	10	BG400161 602440944
C 6	15.8	1.1	20	12	AZ627848 1M0474G14
C 7	15.8	1.1	28	12	TA263A05P
C 8	15.8	1.1	30	12	AZ792571 2M0045D12
C 9	15.6	1.1	30	10	EG975260 602843167
C 10	15.6	1.1	30	10	BI412700 602989191
C 11	15.6	1.1	30	10	BI463777 603203487
C 12	15.6	1.1	30	12	TA285E07Q
C 13	15.4	1.1	25	12	AZ406180 1M0175M18
C 14	15.4	1.1	27	12	AZ774195 2M0003M17
C 15	15.4	1.1	28	9	AI282448 qv04c08.x
C 16	15.4	1.1	28	9	AI719155 at06c12.x
C 17	15.4	1.1	29	10	BM396069 5009-0-16

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19	15.4	1.1	30	10	BI763468
C 20	15.2	1.1	28	9	AA937024
21	15.2	1.1	28	9	A1174332
22	15.2	1.1	28	12	AZ312778
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C 25	15	1.0	25	9	AI745654
26	15	1.0	27	12	TA356E04P
C 27	15	1.0	28	9	AI458838
C 28	15	1.0	28	9	A1628556
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C 35	14.8	1.0	26	12	AZ779432
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C 37	14.8	1.0	28	9	AA902937
C 38	14.8	1.0	28	9	AI720338
C 39	14.8	1.0	28	12	AZ458545
40	14.8	1.0	29	10	DA5817
41	14.8	1.0	29	12	AZ764536
C 42	14.8	1.0	30	12	AZ464926
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C 44	14.8	1.0	30	12	AZ875577
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c 248	13.4	0.9	28	9	A1037937	AI037937	ox5sall.x	c 321	13.2	0.9	26	12	A2470860	A2470860	1M0285S16
c 249	13.4	0.9	28	9	A1529170	AI0529170	ui66b12.y	c 322	13.2	0.9	26	12	A2481761	A2481761	1M0306D18
c 250	13.4	0.9	28	9	A1687017	AI687017	tp81h11.x	c 323	13.2	0.9	26	12	A2499104	A2499104	1M0336L12
c 251	13.4	0.9	28	9	AI688906	AI688906	tx22e03.x	c 324	13.2	0.9	26	12	A2510399	A2510399	1M0356E24
c 252	13.4	0.9	28	9	AI811179	AI811179	tw37h06.x	c 325	13.2	0.9	26	12	A2583403	A2583403	1M0378M24
c 253	13.4	0.9	28	9	A1918417	AI918417	tr96d10.x	c 326	13.2	0.9	26	12	A2585251	A2585251	1M0390M18
c 254	13.4	0.9	28	12	A2403083	A2403083	1M0170P09	c 327	13.2	0.9	26	12	A2609381	A2609381	1M0434C07
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c 259	13.4	0.9	29	10	BM392636	BM392636	50071-2-1	c 332	13.2	0.9	26	12	A2784067	A2784067	1M0026G21
c 260	13.4	0.9	29	10	BM393805	BM393805	50072-2-1	c 333	13.2	0.9	26	12	A2797150	A2797150	1M0053011
c 261	13.4	0.9	29	10	TI7517	TI7517	gsr m46 The	c 334	13.2	0.9	26	12	A2841533	A2841533	1M0139L06
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c 264	13.4	0.9	30	9	AV834397	AV834397	AV834397	c 337	13.2	0.9	26	12	A2864944	A2864944	1M0174M17
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c 271	13.2	0.9	19	12	A2369361	A2369361	1M0119I23	c 344	13.2	0.9	27	12	A2470448	A2470448	1M0284H04
c 272	13.2	0.9	19	12	A2447936	A2447936	1M0245O18	c 345	13.2	0.9	27	12	A2481721	A2481721	1M0306J12
c 273	13.2	0.9	19	12	A2510143	A2510143	1M0354P21	c 346	13.2	0.9	27	12	A2501699	A2501699	1M0340H12
c 274	13.2	0.9	19	12	A2780591	A2780591	1M0018B09	c 347	13.2	0.9	27	12	A2513257	A2513257	1M0359J14
c 275	13.2	0.9	20	12	A2512414	A2512414	1M0357J21	c 348	13.2	0.9	27	12	A2604434	A2604434	1M0425I18
c 276	13.2	0.9	20	12	A2623037	A2623037	1M0460K16	c 349	13.2	0.9	27	12	A2638528	A2638528	1M0498A04
c 277	13.2	0.9	20	12	A2626475	A2626475	1M0466E16	c 350	13.2	0.9	27	12	A2657419	A2657419	1M0533006
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c 280	13.2	0.9	21	12	A2468862	A2468862	1M0282O04	c 353	13.2	0.9	27	12	A2783077	A2783077	1M0024A01
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c 283	13.2	0.9	21	12	A2783943	A2783943	1M0026P05	c 356	13.2	0.9	27	12	A2833127	A2833127	1M0115C06
c 284	13.2	0.9	21	12	A2819992	A2819992	1M0091M21	c 357	13.2	0.9	27	12	A2948983	A2948983	1M0212C15
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c 286	13.2	0.9	21	12	TA20G06P	AL454552	T. brucei	c 359	13.2	0.9	27	12	AA17506	AA17506	1M0226G01
c 287	13.2	0.9	22	12	A2330040	A2330040	1M0055I06	c 360	13.2	0.9	28	9	AA17506	AA17506	1M0226G01
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c 295	13.2	0.9	24	12	A2778465	A2778465	1M0013G17	c 368	13.2	0.9	28	9	AA17506	AA17506	1M0226G01
c 296	13.2	0.9	25	9	AI206423	AI206423	qg22h05.x	c 369	13.2	0.9	28	9	AA17506	AA17506	1M0226G01
c 297	13.2	0.9	25	9	AI471126	AI471126	tf90e05.x	c 370	13.2	0.9	28	9	AA17506	AA17506	1M0226G01
c 298	13.2	0.9	25	10	AI913416	AI913416	tz77a09.x	c 371	13.2	0.9	28	10	AA17506	AA17506	1M0226G01
c 299	13.2	0.9	25	10	H93534	H93534	vy08g12.r1	c 372	13.2	0.9	28	10	AA17506	AA17506	1M0226G01
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c 302	13.2	0.9	25	12	A2611099	A2611099	1M0436K13	c 375	13.2	0.9	28	12	AA17506	AA17506	1M0226G01
c 303	13.2	0.9	25	12	A2646830	A2646830	1M0513I04	c 376	13.2	0.9	28	12	AA17506	AA17506	1M0226G01
c 304	13.2	0.9	25	12	A2780325	A2780325	1M0017N06	c 377	13.2	0.9	28	12	AA17506	AA17506	1M0226G01
c 305	13.2	0.9	25	12	A2853337	A2853337	1M0156A04	c 378	13.2	0.9	28	12	AA17506	AA17506	1M0226G01
c 306	13.2	0.9	25	12	A2945526	A2945526	1M0206L22	c 379	13.2	0.9	28	12	AA17506	AA17506	1M0226G01
c 307	13.2	0.9	26	12	AQ026209	AQ026209	1(3)05652	c 380	13.2	0.9	28	12	AA17506	AA17506	1M0226G01
c 308	13.2	0.9	26	12	A2307137	A2307137	1M0008F06	c 381	13.2	0.9	28	12	AA17506	AA17506	1M0226G01
c 309	13.2	0.9	26	12	A2308611	A2308611	1M0011G16	c 382	13.2	0.9	28	12	AA17506	AA17506	1M0226G01

c 383	13.2	0.9	28	12	A2592621	AZ592621	1M0403J07	456	13	0.9	22	9	AA894572	AA894572 of91902.s
c 384	13.2	0.9	28	12	A2640161	AZ640161	1M0501G23	457	13	0.9	22	9	AA908697	AA908697 o101a07.s
c 385	13.2	0.9	28	12	A2660134	AZ660134	1M0538I01	458	13	0.9	22	9	AI758492	AI758492 t508g06.x
c 386	13.2	0.9	28	12	A2768130	AZ768130	1M0568A02	459	13	0.9	22	9	AI758492	AI758492 t508g06.x
c 387	13.2	0.9	28	12	A2802448	AZ802448	1M0561B20	460	13	0.9	22	10	BM395131	BM395131 50072-2-7
c 388	13.2	0.9	28	12	A2806290	AZ806290	1M0568C13	461	13	0.9	22	12	AZ318425	AZ318425 1M0037M14
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c 393	13.2	0.9	28	12	A2871505	AZ871505	1M0184I20	466	13	0.9	24	10	BM397719	BM397719 5009-0-36
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c 395	13.2	0.9	28	12	A2872959	AZ872959	1M0186F03	468	13	0.9	24	10	BM398293	BM398293 5009-0-43
c 396	13.2	0.9	28	12	A2980190	AZ980190	1M0257G09	469	13	0.9	24	12	AZ327725	AZ327725 1M0051H14
c 397	13.2	0.9	28	12	TA130B12P	AL464095	T. brucei	470	13	0.9	24	12	AZ505513	AZ505513 1M0346B13
c 398	13.2	0.9	29	9	AW335514	AW335514	S48B6 AGS	471	13	0.9	24	12	AZ600832	AZ600832 1M0418O14
c 399	13.2	0.9	29	10	BM396481	BM396481	5009-0-21	472	13	0.9	25	9	AI363940	AI363940 qw34b12.x
c 400	13.2	0.9	29	12	AZ315608	AZ315608	1M0032G23	473	13	0.9	25	12	AZ309919	AZ309919 1M0017C19
c 401	13.2	0.9	29	12	AZ345862	AZ345862	1M0080I14	474	13	0.9	25	12	AZ318035	AZ318035 1M0036L12
c 402	13.2	0.9	29	12	AZ346074	AZ346074	1M0081I05	475	13	0.9	25	12	AZ335954	AZ335954 1M0066E06
c 403	13.2	0.9	29	12	AZ361996	AZ361996	1M0106J22	476	13	0.9	25	12	AZ796046	AZ796046 2M0051B17
c 404	13.2	0.9	29	12	AZ369495	AZ369495	1M0120C08	477	13	0.9	25	12	AZ812604	AZ812604 2M0079F23
c 405	13.2	0.9	29	12	AZ390129	AZ390129	1M0151N18	478	13	0.9	25	12	TA235A01Q	TA235A01Q T. brucei
c 406	13.2	0.9	29	12	AZ423751	AZ423751	1M0203B22	479	13	0.9	25	12	TA236H10Q	TA236H10Q T. brucei
c 407	13.2	0.9	29	12	AZ458872	AZ458872	1M0263O13	480	13	0.9	26	12	TA338C07P	TA338C07P T. brucei
c 408	13.2	0.9	29	12	AZ479604	AZ479604	1M0300E21	481	13	0.9	26	12	TA387F09Q	TA387F09Q T. brucei
c 409	13.2	0.9	29	12	AZ491476	AZ491476	1M0325K05	482	13	0.9	27	9	AW250272	AW250272 2821187.5
c 410	13.2	0.9	29	12	AZ659788	AZ659788	1M0537O24	483	13	0.9	27	10	BM392632	BM392632 50071-2-1
c 411	13.2	0.9	29	12	AZ662726	AZ662726	1M0542C01	484	13	0.9	27	10	BM393779	BM393779 50072-2-1
c 412	13.2	0.9	29	12	AZ764508	AZ764508	1M0560O06	485	13	0.9	27	10	BM396596	BM396596 5009-0-23
c 413	13.2	0.9	29	12	AZ795012	AZ795012	1M0491904	486	13	0.9	27	10	BM397444	BM397444 5009-0-32
c 414	13.2	0.9	29	12	AZ808168	AZ808168	1M0207I08	487	13	0.9	27	10	BM398876	BM398876 5009-0-50
c 415	13.2	0.9	29	12	AZ854411	AZ854411	1M0158B05	488	13	0.9	27	12	AZ39270	AZ39270 1M0070K10
c 416	13.2	0.9	29	12	AZ979126	AZ979126	1M0255O11	489	13	0.9	27	12	AZ622014	AZ622014 1M0455I03
c 417	13.2	0.9	30	10	BM042344	BM042344	603616447	490	13	0.9	27	12	AZ644071	AZ644071 1M0507D22
c 418	13.2	0.9	30	10	BM396292	BM396292	5009-0-2-	491	13	0.9	27	12	AZ776617	AZ776617 2M0010D23
c 419	13.2	0.9	30	10	BM398517	BM398517	5009-0-46	492	13	0.9	27	12	TA289G07Q	TA289G07Q T. brucei
c 420	13.2	0.9	30	12	AZ311581	AZ311581	1M0027O05	493	13	0.9	27	12	TA356D05P	TA356D05P T. brucei
c 421	13.2	0.9	30	12	AZ320274	AZ320274	1M0040C18	494	13	0.9	28	9	AA636118	AA636118 nr17h08.s
c 422	13.2	0.9	30	12	AZ323580	AZ323580	1M0045N05	495	13	0.9	28	9	AA962205	AA962205 om80e08.s
c 423	13.2	0.9	30	12	AZ345551	AZ345551	1M0080E14	496	13	0.9	28	9	AI267151	AI267151 aq36c12.x
c 424	13.2	0.9	30	12	AZ389258	AZ389258	1M0149K12	497	13	0.9	28	9	AI287864	AI287864 qv07d12.x
c 425	13.2	0.9	30	12	AZ390605	AZ390605	1M0152P01	498	13	0.9	28	9	AI492585	AI492585 ti29g08.x
c 426	13.2	0.9	30	12	AZ412491	AZ412491	1M0186A03	499	13	0.9	28	9	AI756191	AI756191 ETEtea40
c 427	13.2	0.9	30	12	AZ465216	AZ465216	1M0275D04	500	13	0.9	28	10	BM396092	BM396092 5009-0-17
c 428	13.2	0.9	30	12	AZ487848	AZ487848	1M0317H13	501	13	0.9	28	10	BM396202	BM396202 5009-0-18
c 429	13.2	0.9	30	12	AZ490365	AZ490365	1M0323J14	502	13	0.9	28	10	BM396719	BM396719 5009-0-24
c 430	13.2	0.9	30	12	AZ503721	AZ503721	1M0343A11	503	13	0.9	28	10	BM398290	BM398290 5009-0-43
c 431	13.2	0.9	30	12	AZ588957	AZ588957	1M0397B08	504	13	0.9	28	12	AZ312487	AZ312487 1M0028B22
c 432	13.2	0.9	30	12	AZ623010	AZ623010	1M0460E14	505	13	0.9	28	12	AZ466981	AZ466981 1M0278L04
c 433	13.2	0.9	30	12	AZ638210	AZ638210	1M0498C06	506	13	0.9	28	12	TA186G09P	TA186G09P T. brucei
c 434	13.2	0.9	30	12	AZ655045	AZ655045	1M0520E05	507	13	0.9	29	10	D45817	D45817 HUMG03036
c 435	13.2	0.9	30	12	AZ655716	AZ655716	1M0530P14	508	13	0.9	29	12	AZ602942	AZ602942 1M0421O21
c 436	13.2	0.9	30	12	AZ658107	AZ658107	1M0534M12	509	13	0.9	29	12	AZ942017	AZ942017 2M0202E01
c 437	13.2	0.9	30	12	AZ764531	AZ764531	1M0560M15	510	13	0.9	29	12	AZ949281	AZ949281 2M0212M12
c 438	13.2	0.9	30	12	AZ783172	AZ783172	1M02024F08	511	13	0.9	29	12	BH023787	BH023787 BG02425-5
c 439	13.2	0.9	30	12	AZ788303	AZ788303	1M02035K15	512	13	0.9	29	12	AQ254876	AQ254876 EP(2)2583
c 440	13.2	0.9	30	12	AZ807237	AZ807237	1M02069L19	513	13	0.9	29	12	TA108H10Q	TA108H10Q T. brucei
c 441	13.2	0.9	30	12	AZ824951	AZ824951	1M02099E19	514	13	0.9	29	12	TA108H10Q	TA108H10Q T. brucei
c 442	13.2	0.9	30	12	AZ833458	AZ833458	1M0115L02	515	13	0.9	30	10	BT522323	BT522323 603081368
c 443	13.2	0.9	30	12	AZ845409	AZ845409	1M0145N10	516	13	0.9	30	10	BM396879	BM396879 5009-0-26
c 444	13.2	0.9	30	12	AZ861881	AZ861881	1M0168J17	517	13	0.9	30	10	BE277260	BE277260 601178250
c 445	13.2	0.9	30	12	AZ864315	AZ864315	1M0173P16	518	13	0.9	30	10	BE904656	BE904656 601498767
c 446	13.2	0.9	30	12	AZ864869	AZ864869	1M0174M09	519	13	0.9	30	12	AZ345704	AZ345704 1M0080G05
c 447	13.2	0.9	30	12	AZ942781	AZ942781	1M0203P06	520	13	0.9	30	12	AZ364675	AZ364675 1M0110K20
c 448	13.2	0.9	30	12	TA251B07P	AL483453	T. brucei	521	13	0.9	30	12	AZ501729	AZ501729 1M0340N09
c 449	13.2	0.9	30	12	TA348E10P	AL483613	T. brucei	522	13	0.9	30	12	AZ593933	AZ593933 1M0405C18
c 450	13	0.9	21	12	AZ341757	AZ341757	1M0074F18	523	13	0.9	30	12	AZ658957	AZ658957 1M0536H04
c 451	13	0.9	21	12	AZ443821	AZ443821	1M0238I07	524	13	0.9	30	12	AZ666770	AZ666770 1M0549G08
c 452	13	0.9	21	12	AZ589393	AZ589393	1M0398A20	525	13	0.9	30	12	AZ782713	AZ782713 2M0023M21
c 453	13	0.9	21	12	AZ775228	AZ775228	1M0007J23	526	13	0.9	30	12	AZ794672	AZ794672 2M0048K01
c 454	13	0.9	21	12	AZ861360	AZ861360	1M0167G17	527	13	0.9	30	12	AZ924604	AZ924604 4906.ic29
c 455	13	0.9	21	12	AZ959441	AZ959441	2M0227C07	528	13	0.9	30	12	TA158G08P	TA158G08P T. brucei

c 529	12.8	0.9	16	9	A1758574	AI758574	ty07g05.x	c 602	12.8	0.9	28	9	AI756191	AI756191	EtEStea40
c 530	12.8	0.9	19	9	A1537209	AI537209	tp06sf07.x	c 603	12.8	0.9	28	10	N66991	N66991	Yz58f02.s1
c 531	12.8	0.9	19	9	A1718147	AI718147	as42f11.x	c 604	12.8	0.9	28	10	BE437460	BE437460	SFR004.a0
c 532	12.8	0.9	19	12	A2626573	A2626573	1M0146K12	c 605	12.8	0.9	28	12	A2307173	A2307173	1M008N03
c 533	12.8	0.9	20	12	A2466238	A2466238	1M0276016	c 606	12.8	0.9	28	12	A2346711	A2346711	1M0082N02
c 534	12.8	0.9	20	12	A2482160	A2482160	1M0307G09	c 607	12.8	0.9	28	12	A2432111	A2432111	1M0217E05
c 535	12.8	0.9	20	12	A2652975	A2652975	1M0526120	c 608	12.8	0.9	28	12	A2461659	A2461659	1M0267D11
c 536	12.8	0.9	20	12	A2668896	A2668896	1M0549A24	c 609	12.8	0.9	28	12	A2591905	A2591905	1M0402P18
c 537	12.8	0.9	20	12	A2484637	A2484637	2M0146E10	c 610	12.8	0.9	28	12	A2633122	A2633122	1M0488L09
c 538	12.8	0.9	20	12	A2305158	A2305158	1M0005K11	c 611	12.8	0.9	28	12	A2776616	A2776616	2M0010K24
c 539	12.8	0.9	21	12	A173941	AI73941	tm04c11.x	c 612	12.8	0.9	28	12	A2790279	A2790279	2M0038F08
c 540	12.8	0.9	22	12	A2310074	A2310074	1M0018I15	c 613	12.8	0.9	28	12	A2794115	A2794115	2M0047D16
c 541	12.8	0.9	22	12	A2603366	A2603366	1M0422L17	c 614	12.8	0.9	28	12	A2820658	A2820658	2M0093C03
c 542	12.8	0.9	22	12	A2805739	A2805739	2M0067K14	c 615	12.8	0.9	28	12	A2832100	A2832100	2M0112G14
c 543	12.8	0.9	24	12	A275584	A275584	1M0129F04	c 616	12.8	0.9	28	12	A2872959	A2872959	2M0186F03
c 544	12.8	0.9	24	12	A2448798	A2448798	1M0246G09	c 617	12.8	0.9	28	12	A2986927	A2986927	2M0269N13
c 545	12.8	0.9	24	12	A2467278	A2467278	1M0278K02	c 618	12.8	0.9	28	12	A2987019	A2987019	5009-0-28
c 546	12.8	0.9	24	12	A2665864	A2665864	1M0547I04	c 619	12.8	0.9	29	10	BM398658	BM398658	5009-0-48
c 547	12.8	0.9	24	12	A2764494	A2764494	1M0560E06	c 620	12.8	0.9	29	12	A2346559	A2346559	1M0081M15
c 548	12.8	0.9	24	12	A2764512	A2764512	1M0560C12	c 621	12.8	0.9	29	12	A2596214	A2596214	1M0409A21
c 549	12.8	0.9	24	12	A2773118	A2773118	1M0584P20	c 622	12.8	0.9	29	12	A2602874	A2602874	1M0421B21
c 550	12.8	0.9	24	12	A2812591	A2812591	2M0079D21	c 623	12.8	0.9	29	12	A2608734	A2608734	1M0433F11
c 551	12.8	0.9	24	12	A2877568	A2877568	2M0192L03	c 624	12.8	0.9	29	12	A2663173	A2663173	1M0542J07
c 552	12.8	0.9	24	12	TA313F10P	TA313F10P	2M0192L03	c 625	12.8	0.9	29	12	A2759919	A2759919	1M0553H09
c 553	12.8	0.9	24	12	TA339F07Q	TA339F07Q	2M0192L03	c 626	12.8	0.9	29	12	A2777445	A2777445	1M0011C19
c 554	12.8	0.9	24	12	TA339F07Q	TA339F07Q	2M0192L03	c 627	12.8	0.9	29	12	A2805819	A2805819	2M0067K19
c 555	12.8	0.9	25	9	AA3434350	AA3434350	2k20q01.r	c 628	12.8	0.9	29	12	A2853380	A2853380	2M0156J03
c 556	12.8	0.9	25	9	AA962703	AA962703	op12e01.s	c 629	12.8	0.9	29	12	TA215F10Q	TA215F10Q	T. brucei
c 557	12.8	0.9	25	9	AA994917	AA994917	ou21d04.s	c 630	12.8	0.9	30	2	HSM010186	HSM010186	Al045336 Homo sapi
c 558	12.8	0.9	25	9	AA025765	AA025765	ou21d04.s	c 631	12.8	0.9	30	2	HSM010202	HSM010202	Al045332 Homo sapi
c 559	12.8	0.9	25	9	AI181643	AI181643	ou94a03.s	c 632	12.8	0.9	30	2	HSM010327	HSM010327	Al045477 Homo sapi
c 560	12.8	0.9	25	9	AI249715	AI249715	qb74h08.r	c 633	12.8	0.9	30	2	HSM010337	HSM010337	Al045487 Homo sapi
c 561	12.8	0.9	25	9	AI565902	AI565902	tr93h08.x	c 634	12.8	0.9	30	10	BI556227	BI556227	603237625
c 562	12.8	0.9	25	10	BG899263	BG899263	HOA17-l-E	c 635	12.8	0.9	30	10	BI562246	BI562246	603254963
c 563	12.8	0.9	25	12	A2340246	A2340246	1M0072C18	c 636	12.8	0.9	30	10	BM398103	BM398103	5009-0-40
c 564	12.8	0.9	25	12	A2348233	A2348233	1M0084G04	c 637	12.8	0.9	30	10	BE385582	BE385582	601275867
c 565	12.8	0.9	25	12	A2350753	A2350753	1M0088M20	c 638	12.8	0.9	30	12	A2343274	A2343274	1M0076C04
c 566	12.8	0.9	25	12	A2417946	A2417946	1M0193O15	c 639	12.8	0.9	30	12	A2423436	A2423436	1M0202I01
c 567	12.8	0.9	25	12	A2583357	A2583357	1M0378C24	c 640	12.8	0.9	30	12	A2464926	A2464926	1M0274J04
c 568	12.8	0.9	25	12	A2661706	A2661706	1M0540J21	c 641	12.8	0.9	30	12	A2479868	A2479868	1M0300I19
c 569	12.8	0.9	25	12	A2772979	A2772979	1M0584E13	c 642	12.8	0.9	30	12	A2598617	A2598617	1M0413G01
c 570	12.8	0.9	25	12	A2782142	A2782142	2M0022H10	c 643	12.8	0.9	30	12	A2782090	A2782090	2M0022I02
c 571	12.8	0.9	25	12	A2872633	A2872633	2M0186K01	c 644	12.8	0.9	30	12	A2783604	A2783604	2M0025F05
c 572	12.8	0.9	25	12	A2938825	A2938825	2M0197J05	c 645	12.8	0.9	30	12	BH127958	BH127958	G-2422.r
c 573	12.8	0.9	25	12	A2976143	A2976143	2M0251P21	c 646	12.8	0.9	30	12	TA341A10Q	TA341A10Q	T. brucei
c 574	12.8	0.9	25	12	TA185B02Q	TA185B02Q	2M0251P21	c 647	12.8	0.9	30	12	TA36H04Q	TA36H04Q	T. brucei
c 575	12.8	0.9	25	12	TA356H06P	TA356H06P	2M0251P21	c 648	12.6	0.9	19	10	BM394390	BM394390	50072-2-3
c 576	12.8	0.9	26	12	A2309695	A2309695	1M0016H13	c 649	12.6	0.9	19	12	A2328696	A2328696	1M0052006
c 577	12.8	0.9	26	12	A2369592	A2369592	1M0120E16	c 650	12.6	0.9	19	12	A2442378	A2442378	1M0236K18
c 578	12.8	0.9	26	12	A2386054	A2386054	1M0145A05	c 651	12.6	0.9	19	12	A2782026	A2782026	2M0021I23
c 579	12.8	0.9	26	12	A2506565	A2506565	1M0347H18	c 652	12.6	0.9	19	12	A2835034	A2835034	2M0129K04
c 580	12.8	0.9	26	12	A2514624	A2514624	1M0361P19	c 653	12.6	0.9	19	12	A2858978	A2858978	2M0164F24
c 581	12.8	0.9	26	12	A2628823	A2628823	1M0481G13	c 654	12.6	0.9	19	12	A2969354	A2969354	2M0242A07
c 582	12.8	0.9	26	12	A2660002	A2660002	1M0537L18	c 655	12.6	0.9	20	10	BM395025	BM395025	50072-2-7
c 583	12.8	0.9	26	12	A2760191	A2760191	1M0553P10	c 656	12.6	0.9	20	12	A2434513	A2434513	1M0080J04
c 584	12.8	0.9	26	12	A2808201	A2808201	2M0071F14	c 657	12.6	0.9	20	12	A2452238	A2452238	1M0252C05
c 585	12.8	0.9	26	12	A2818942	A2818942	2M0089I15	c 658	12.6	0.9	20	12	A2512326	A2512326	1M0357I18
c 586	12.8	0.9	26	12	A2820150	A2820150	2M0092K11	c 659	12.6	0.9	20	12	A2637794	A2637794	1M0497D20
c 587	12.8	0.9	26	12	A2837402	A2837402	2M0132H10	c 660	12.6	0.9	20	12	A2830894	A2830894	2M0110E22
c 588	12.8	0.9	26	12	A2955924	A2955924	2M0222P10	c 661	12.6	0.9	21	12	A2419284	A2419284	1M0195A16
c 589	12.8	0.9	27	12	A2499171	A2499171	1M0336J22	c 662	12.6	0.9	21	12	A2499846	A2499846	1M0337E23
c 590	12.8	0.9	27	12	A2763057	A2763057	1M0558C22	c 663	12.6	0.9	21	12	A2580960	A2580960	1M0369P04
c 591	12.8	0.9	27	12	A2787475	A2787475	2M0033F09	c 664	12.6	0.9	21	12	A2657144	A2657144	1M0533F12
c 592	12.8	0.9	27	12	A2843637	A2843637	2M0142Q06	c 665	12.6	0.9	21	12	A2808777	A2808777	2M0072M04
c 593	12.8	0.9	27	12	TA341G09Q	TA341G09Q	2M0142Q06	c 666	12.6	0.9	21	12	A2961893	A2961893	2M0230E06
c 594	12.8	0.9	28	9	AA871664	AA871664	vq39d05.r	c 667	12.6	0.9	21	12	A2986278	A2986278	2M0268J21
c 595	12.8	0.9	28	9	AA978158	AA978158	ny36c01.s	c 668	12.6	0.9	22	9	AI679260	AI679260	ts62d08.x
c 596	12.8	0.9	28	9	AI079366	AI079366	oz39c12.s	c 669	12.6	0.9	22	9	AI708898	AI708898	as86h07.x
c 597	12.8	0.9	28	9	AI087295	AI087295	oz77h02.x	c 670	12.6	0.9	22	12	A2433960	A2433960	1M0220C07
c 598	12.8	0.9	28	9	AI096133	AI096133	SMOVL3CAN	c 671	12.6	0.9	22	12	A2611419	A2611419	1M0437D15
c 599	12.8	0.9	28	9	AI256473	AI256473	ui89g06.x	c 672	12.6	0.9	22	12	A2656873	A2656873	1M0332M09
c 600	12.8	0.9	28	9	AI330407	AI330407	fa92c11.x	c 673	12.6	0.9	22	12	A2805296	A2805296	2M0066D08
c 601	12.8	0.9	28	9	AI628556	AI628556	ty95d11.x	c 674	12.6	0.9	22	12	A2974046	A2974046	2M0248C01

675	12.6	0.9	23	12	AZ305188	IM0005C17	AZ305188	IM0005C17	748	12.6	0.9	28	12	A2947343	AZ947343	2M0210G06
676	12.6	0.9	23	12	A2311201	IM0026F04	AZ311201	IM0026F04	c 749	12.6	0.9	28	12	AZ958417	AZ958417	2M0225N12
c 677	12.6	0.9	23	12	A2618720	IM0450019	AZ618720	IM0450019	750	12.6	0.9	29	9	AW249406	AW249406	2819441.5
c 678	12.6	0.9	23	12	A2643860	IM0507J04	AZ643860	IM0507J04	c 751	12.6	0.9	29	9	AW249406	AW249406	2819441.5
679	12.6	0.9	23	12	A2763749	IM0559B19	AZ763749	IM0559B19	752	12.6	0.9	29	12	AZ395488	AZ395488	1M0159A07
680	12.6	0.9	23	12	AZ789371	2M0037L01	AZ789371	2M0037L01	753	12.6	0.9	29	12	AZ454960	AZ454960	1M0257F08
681	12.6	0.9	23	12	AZ848503	2M0149H02	AZ848503	2M0149H02	754	12.6	0.9	29	12	AZ479842	AZ479842	1M0300B20
c 682	12.6	0.9	23	12	TA265A03P		AL484822	T. brucei	755	12.6	0.9	29	12	AZ609543	AZ609543	1M0434C15
c 683	12.6	0.9	24	12	AZ310221	IM0025P05	AZ310221	IM0025P05	c 756	12.6	0.9	29	12	AZ657879	AZ657879	1M0534A23
684	12.6	0.9	24	12	AZ588336	IM0396O06	AZ588336	IM0396O06	c 757	12.6	0.9	29	12	AZ781479	AZ781479	2M0031A120
685	12.6	0.9	24	12	AZ608837	IM0433L14	AZ608837	IM0433L14	758	12.6	0.9	29	12	AZ989263	AZ989263	2M0272L04
c 686	12.6	0.9	24	12	AZ642367	IM0505H12	AZ642367	IM0505H12	759	12.6	0.9	30	10	BI153943	BI153943	602870782
c 687	12.6	0.9	24	12	AZ665864	IM0547I04	AZ665864	IM0547I04	760	12.6	0.9	30	10	BI223044	BI223044	602943380
c 688	12.6	0.9	25	9	AI174382	an18f09.s	AI174382	an18f09.s	761	12.6	0.9	30	10	BI768935	BI768935	603058057
c 689	12.6	0.9	25	9	AI432740	tb43h06.x	AI432740	tb43h06.x	762	12.6	0.9	30	10	C20586	C20586	HUMG5000367
c 690	12.6	0.9	25	9	AI654278	tg89f05.x	AI654278	tg89f05.x	c 763	12.6	0.9	30	10	T50761	T50761	YB31h04.s1
c 691	12.6	0.9	25	12	AZ406180	IM0175M18	AZ406180	IM0175M18	764	12.6	0.9	30	10	BE297610	BE297610	601178187
692	12.6	0.9	25	12	AZ420657	IM0198P02	AZ420657	IM0198P02	765	12.6	0.9	30	12	AZ320229	AZ320229	1M00040J12
693	12.6	0.9	25	12	AZ423795	IM0203L21	AZ423795	IM0203L21	c 766	12.6	0.9	30	12	AZ363528	AZ363528	1M0109P06
c 694	12.6	0.9	25	12	AZ508976	IM0351N10	AZ508976	IM0351N10	c 767	12.6	0.9	30	12	AZ376002	AZ376002	1M0129J07
c 695	12.6	0.9	25	12	AZ510562	IM0355F11	AZ510562	IM0355F11	768	12.6	0.9	30	12	AZ408639	AZ408639	1M0179I23
c 696	12.6	0.9	25	12	AZ599533	IM0414N20	AZ599533	IM0414N20	c 769	12.6	0.9	30	12	AZ486794	AZ486794	1M0315N24
697	12.6	0.9	25	12	AZ781174	2M0019007	AZ781174	2M0019007	c 770	12.6	0.9	30	12	AZ655323	AZ655323	1M0530D14
c 698	12.6	0.9	25	12	AZ944762	2M0205N19	AZ944762	2M0205N19	771	12.6	0.9	30	12	AZ657672	AZ657672	1M0534G02
699	12.6	0.9	26	10	L32064	HUMXP19G12	L32064	HUMXP19G12	772	12.6	0.9	30	12	AZ666375	AZ666375	1M0548C20
c 700	12.6	0.9	26	12	AZ313484	IM0029D09	AZ313484	IM0029D09	773	12.6	0.9	30	12	AZ770421	AZ770421	1M0572D11
c 701	12.6	0.9	26	12	AZ509025	IM0351H17	AZ509025	IM0351H17	774	12.6	0.9	30	12	AZ788334	AZ788334	2M0035B19
c 702	12.6	0.9	26	12	AZ780294	2M0017G01	AZ780294	2M0017G01	775	12.6	0.9	30	12	AZ815328	AZ815328	2M0083D03
c 703	12.6	0.9	26	12	TA157A01Q		AL472512	T. brucei	776	12.6	0.9	30	12	AZ833458	AZ833458	2M0115L02
c 704	12.6	0.9	26	12	TA29C06Q		AL452652	T. brucei	777	12.6	0.9	30	12	TA179H01P	TA179H01P	T. brucei
c 705	12.6	0.9	26	12	TA351E03P		AL493799	T. brucei	c 778	12.6	0.9	30	12	TA199E03P	TA199E03P	AL475999 T. brucei
c 706	12.6	0.9	27	10	L32054	HUMXP519B H	L32054	HUMXP519B H	c 779	12.6	0.9	30	12	TA21H04Q	TA21H04Q	AL453803 T. brucei
707	12.6	0.9	27	10	T94199	ye32e09.r1	T94199	ye32e09.r1	c 780	12.4	0.9	16	9	AI749229	AI749229	at41a02.x
708	12.6	0.9	27	12	AZ345930	IM0080K21	AZ345930	IM0080K21	c 781	12.4	0.9	19	9	AI719958	AI719958	as41d06.x
709	12.6	0.9	27	12	AZ463355	IM0272E09	AZ463355	IM0272E09	c 782	12.4	0.9	19	9	AI807936	AI807936	wf52e09.x
c 710	12.6	0.9	27	12	AZ633750	IM0489I09	AZ633750	IM0489I09	c 783	12.4	0.9	19	10	BM398839	BM398839	5009-0-5-
711	12.6	0.9	27	12	AZ763599	IM0559E08	AZ763599	IM0559E08	784	12.4	0.9	19	12	AZ400662	AZ400662	1M0167K06
c 712	12.6	0.9	27	12	AZ829406	2M0107K06	AZ829406	2M0107K06	785	12.4	0.9	20	12	AZ339816	AZ339816	1M0071M24
713	12.6	0.9	27	12	AZ835367	2M0129M03	AZ835367	2M0129M03	c 786	12.4	0.9	20	12	AZ398062	AZ398062	1M0163M14
c 714	12.6	0.9	27	12	TA50F03Q		AL456102	T. brucei	787	12.4	0.9	20	12	AZ609449	AZ609449	1M0434D20
715	12.6	0.9	28	9	AA870545	vg23a04.r	AA870545	vg23a04.r	c 788	12.4	0.9	20	12	AZ793982	AZ793982	2M0047I05
716	12.6	0.9	28	9	AA938709	OC09G05.S	AA938709	OC09G05.S	c 789	12.4	0.9	20	12	AZ816496	AZ816496	2M0085G16
c 717	12.6	0.9	28	9	AA961904	or68G12.S	AA961904	or68G12.S	790	12.4	0.9	21	12	AZ233807	AZ233807	1M0045N21
c 718	12.6	0.9	28	9	AA990156	ua60G03.r	AA990156	ua60G03.r	c 791	12.4	0.9	21	12	AZ845957	AZ845957	2M0145P24
c 719	12.6	0.9	28	9	AI089047	ou84h01.s	AI089047	ou84h01.s	c 792	12.4	0.9	22	9	AA912871	AA912871	cl127a02.s
c 720	12.6	0.9	28	9	AI147582	qb21f07.x	AI147582	qb21f07.x	793	12.4	0.9	22	9	AI566419	AI566419	tr95c08.x
c 721	12.6	0.9	28	9	AI180766	ub76a11.r	AI180766	ub76a11.r	794	12.4	0.9	22	9	AI633039	AI633039	tz33q06.x
c 722	12.6	0.9	28	9	AI286305	qu19g01.x	AI286305	qu19g01.x	795	12.4	0.9	22	9	AI688330	AI688330	wc34c08.x
c 723	12.6	0.9	28	9	AI288386	qv85c01.x	AI288386	qv85c01.x	c 796	12.4	0.9	22	12	AZ349111	AZ349111	1M0086B03
c 724	12.6	0.9	28	9	AI307722	tb36d02.x	AI307722	tb36d02.x	797	12.4	0.9	22	12	AZ364062	AZ364062	1M0110A08
725	12.6	0.9	28	9	AI368992	qw17e04.x	AI368992	qw17e04.x	798	12.4	0.9	22	12	AZ470511	AZ470511	1M0284D10
726	12.6	0.9	28	9	AI522573	fb59d12.x	AI522573	fb59d12.x	c 799	12.4	0.9	22	12	AZ656873	AZ656873	1M0532M09
727	12.6	0.9	28	9	AI633014	tz33d07.x	AI633014	tz33d07.x	800	12.4	0.9	22	12	AZ797063	AZ797063	2M0053N03
c 728	12.6	0.9	28	9	AI633014	tz33d07.x	AI633014	tz33d07.x	c 801	12.4	0.9	22	12	AZ798235	AZ798235	2M0054O19
c 729	12.6	0.9	28	9	AI708042	as60c05.x	AI708042	as60c05.x	c 802	12.4	0.9	22	12	AZ840252	AZ840252	2M0136P10
c 730	12.6	0.9	28	9	AI745328	tr21g01.x	AI745328	tr21g01.x	c 803	12.4	0.9	22	12	AZ861868	AZ861868	2M0168I19
731	12.6	0.9	28	9	AA249938	2821521.3	AA249938	2821521.3	804	12.4	0.9	22	12	TA130G02P	TA130G02P	AL464119 T. brucei
732	12.6	0.9	28	9	AA484974	aa39a01.r	AA484974	aa39a01.r	805	12.4	0.9	23	12	AZ340024	AZ340024	1M0071G15
733	12.6	0.9	28	9	AA499008	vi87h06.r	AA499008	vi87h06.r	806	12.4	0.9	23	12	AZ411764	AZ411764	1M0184O22
c 734	12.6	0.9	28	10	BG925479	HNC5-1-B1	BG925479	HNC5-1-B1	c 807	12.4	0.9	23	12	AZ425674	AZ425674	1M0205F19
c 735	12.6	0.9	28	10	R63848	y121a09.r1	R63848	y121a09.r1	c 808	12.4	0.9	23	12	AZ456925	AZ456925	1M0260J06
736	12.6	0.9	28	12	AZ303959	IM0003P16	AZ303959	IM0003P16	809	12.4	0.9	23	12	AZ581540	AZ581540	1M0370E22
c 737	12.6	0.9	28	12	AZ317107	IM0035E09	AZ317107	IM0035E09	c 810	12.4	0.9	23	12	AZ583544	AZ583544	1M0378G05
c 738	12.6	0.9	28	12	AZ352539	IM0090J21	AZ352539	IM0090J21	811	12.4	0.9	23	12	AZ764518	AZ764518	1M0560L11
739	12.6	0.9	28	12	AZ410454	IM0182K16	AZ410454	IM0182K16	c 812	12.4	0.9	23	12	AZ764518	AZ764518	1M0560L11
740	12.6	0.9	28	12	AZ485440	IM0312B22	AZ485440	IM0312B22	813	12.4	0.9	23	12	AZ781980	AZ781980	2M0021N13
741	12.6	0.9	28	12	AZ486627	IM0314H13	AZ486627	IM0314H13	c 814	12.4	0.9	23	12	AZ827973	AZ827973	2M0104P11
742	12.6	0.9	28	12	AZ512393	IM0357F20	AZ512393	IM0357F20	c 815	12.4	0.9	23	12	AZ949214	AZ949214	2M0120I05
743	12.6	0.9	28	12	AZ633122	IM0488L09	AZ633122	IM0488L09	816	12.4	0.9	23	12	TA178H03P	TA178H03P	AL479430 T. brucei
c 744	12.6	0.9	28	12	AZ652464	1M0525N10	AZ652464	1M0525N10	c 817	12.4	0.9	24	10	BM399781	BM399781	5009-0-61
c 745	12.6	0.9	28	12	AZ799395	2M0056N16	AZ799395	2M0056N16	818	12.4	0.9	24	12	AZ307682	AZ307682	1M0009P21
746	12.6	0.9	28	12	AZ811033	2M0077B02	AZ811033	2M0077B02	820	12.4	0.9	24	12	AZ309298	AZ309298	1M0013M15



c 821	12.4	0.9	24	12	AZ331553	AZ331553	1M0059K06	894	12.4	0.9	28	12	AZ457059	AZ457059	1M0260B14
c 822	12.4	0.9	24	12	AZ332511	AZ332511	1M0061I02	895	12.4	0.9	28	12	AZ463637	AZ463637	1M0272A11
c 823	12.4	0.9	24	12	AZ335584	AZ335584	1M0129F04	896	12.4	0.9	28	12	AZ650845	AZ650845	1M0521B13
c 824	12.4	0.9	24	12	AZ387313	AZ387313	1M0146E08	897	12.4	0.9	28	12	AZ774890	AZ774890	2M0004A15
c 825	12.4	0.9	24	12	AZ420211	AZ420211	1M0197C22	c 898	12.4	0.9	28	12	CNS00BJY	AL057272	DR080H1
c 826	12.4	0.9	24	12	AZ491197	AZ491197	1M0324C10	c 899	12.4	0.9	29	12	AZ345862	AZ345862	1M0080I14
c 827	12.4	0.9	24	12	AZ584313	AZ584313	1M0388F13	c 900	12.4	0.9	29	12	AZ387832	AZ387832	1M0147F23
c 828	12.4	0.9	24	12	AZ585617	AZ585617	1M0390I23	c 901	12.4	0.9	29	12	AZ490639	AZ490639	1M0323B14
c 829	12.4	0.9	24	12	AZ585617	AZ585617	1M0390I23	c 902	12.4	0.9	29	12	AZ490639	AZ490639	1M0323B14
c 830	12.4	0.9	24	12	AZ656029	AZ656029	1M0531O18	c 903	12.4	0.9	29	12	AZ595520	AZ595520	1M0408M09
c 831	12.4	0.9	24	12	AZ764494	AZ764494	1M0560E06	c 904	12.4	0.9	29	12	AZ607297	AZ607297	1M0408M09
c 832	12.4	0.9	25	9	AZ36737	AI971899	AI971899	c 905	12.4	0.9	29	12	AZ642459	AZ642459	1M0505D06
c 833	12.4	0.9	25	9	AI017105	AI017105	AI017105	c 906	12.4	0.9	29	12	AZ771858	AZ771858	1M0574P16
c 834	12.4	0.9	25	9	AI147073	AI147073	AI147073	c 907	12.4	0.9	29	12	AZ786433	AZ786433	2M0031M21
c 835	12.4	0.9	25	9	AI234442	AI234442	AI234442	c 908	12.4	0.9	29	12	AZ789510	AZ789510	2M0037B24
c 836	12.4	0.9	25	9	AI242019	AI242019	AI242019	c 909	12.4	0.9	29	12	AZ798694	AZ798694	2M0055F12
c 837	12.4	0.9	25	9	AI243924	AI243924	AI243924	c 910	12.4	0.9	29	12	AZ799171	AZ799171	2M0056F14
c 838	12.4	0.9	25	9	AI243924	AI243924	AI243924	c 911	12.4	0.9	29	12	AZ814153	AZ814153	2M0008I14
c 839	12.4	0.9	25	9	AI243924	AI243924	AI243924	c 912	12.4	0.9	29	12	AZ838103	AZ838103	2M0133I11
c 840	12.4	0.9	25	9	AI243924	AI243924	AI243924	c 913	12.4	0.9	29	12	TA217F07Q	AI479008	T. brucei
c 841	12.4	0.9	25	10	BG929095	BG929095	BG929095	c 914	12.4	0.9	30	9	AW246132	AW246132	282168.5
c 842	12.4	0.9	25	10	BG929095	BG929095	BG929095	c 915	12.4	0.9	30	9	AW246132	AW246132	282168.5
c 843	12.4	0.9	25	10	BG929095	BG929095	BG929095	c 916	12.4	0.9	30	10	BM393952	BM393952	50072-2-1
c 844	12.4	0.9	25	10	BG929095	BG929095	BG929095	c 917	12.4	0.9	30	10	BM397706	BM397706	5009-0-35
c 845	12.4	0.9	25	10	BG929095	BG929095	BG929095	c 918	12.4	0.9	30	10	BM398184	BM398184	5009-0-41
c 846	12.4	0.9	25	10	BG929095	BG929095	BG929095	c 919	12.4	0.9	30	12	AZ582204	AZ582204	1M0374N19
c 847	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 920	12.4	0.9	30	12	AZ604126	AZ604126	1M0423013
c 848	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 921	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 849	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 922	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 850	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 923	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 851	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 924	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 852	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 925	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 853	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 926	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 854	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 927	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 855	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 928	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 856	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 929	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 857	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 930	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 858	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 931	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 859	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 932	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 860	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 933	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 861	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 934	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 862	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 935	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 863	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 936	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 864	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 937	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 865	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 938	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 866	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 939	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 867	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 940	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 868	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 941	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 869	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 942	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 870	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 943	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 871	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 944	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 872	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 945	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 873	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 946	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 874	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 947	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 875	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 948	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 876	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 949	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 877	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 950	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 878	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 951	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 879	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 952	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 880	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 953	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 881	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 954	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 882	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 955	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 883	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 956	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 884	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 957	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 885	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 958	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 886	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 959	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 887	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 960	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 888	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 961	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 889	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 962	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 890	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 963	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 891	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 964	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 892	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 965	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110
c 893	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 966	12.4	0.9	30	12	AZ628988	AZ628988	1M0481110

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c 967 12.2 0.9 23 12 TAL5C04Q AL452007 T. brucei
c 968 12.2 0.9 24 2 HSM010419 AL045569 Homo sapi
c 969 12.2 0.9 24 10 BG896942 HOA59-1-B BG896942 HOA59-1-B
c 970 12.2 0.9 24 10 BM395564 50072-2-9 BM395564 50072-2-9
c 971 12.2 0.9 24 12 AZ330734 1M0056809 AZ330734 1M0056809
c 972 12.2 0.9 24 12 AZ789161 2M0036A15 AZ789161 2M0036A15
c 973 12.2 0.9 24 12 AZ822871 2M0096B05 AZ822871 2M0096B05
c 974 12.2 0.9 24 12 AZ823931 2M0098F17 AZ823931 2M0098F17
c 975 12.2 0.9 24 12 AZ939258 2M0198H10 AZ939258 2M0198H10
c 976 12.2 0.9 24 12 TAL4F05Q AL452009 T. brucei
c 977 12.2 0.9 25 9 AA871952 vq43B09.r AA871952 vq43B09.r
c 978 12.2 0.9 25 9 AA878798 oF82H02.s AA878798 oF82H02.s
c 979 12.2 0.9 25 9 AI613472 ty37A06.x AI613472 ty37A06.x
c 980 12.2 0.9 25 9 AI628239 ty93C04.x AI628239 ty93C04.x
c 981 12.2 0.9 25 9 AI648460 tz56B06.x AI648460 tz56B06.x
c 982 12.2 0.9 25 9 AI654597 tg22H08.x AI654597 tg22H08.x
c 983 12.2 0.9 25 9 AI739003 wj34B01.x AI739003 wj34B01.x
c 984 12.2 0.9 25 9 AI758887 ty94G11.x AI758887 ty94G11.x
c 985 12.2 0.9 25 9 AI762378 wj54F10.x AI762378 wj54F10.x
c 986 12.2 0.9 25 9 AI762402 wh65E10.x AI762402 wh65E10.x
c 987 12.2 0.9 25 9 AI913416 tz77A09.x AI913416 tz77A09.x
c 988 12.2 0.9 25 9 AI915575 tz40G09.x AI915575 tz40G09.x
c 989 12.2 0.9 25 9 AA565870 dJ32E03.s AA565870 dJ32E03.s
c 990 12.2 0.9 25 10 BM399132 5009-0-53 BM399132 5009-0-53
c 991 12.2 0.9 25 10 L32032 HUMXP11B6A L32032 HUMXP11B6A
c 992 12.2 0.9 25 10 N77071 yv51a03.r1 N77071 yv51a03.r1
c 993 12.2 0.9 25 12 AZ338237 1M0069A18 AZ338237 1M0069A18
c 994 12.2 0.9 25 12 AZ338237 1M0069A18 AZ338237 1M0069A18
c 995 12.2 0.9 25 12 AZ343060 1M0076E18 AZ343060 1M0076E18
c 996 12.2 0.9 25 12 AZ343060 1M0076E18 AZ343060 1M0076E18
c 997 12.2 0.9 25 12 AZ345541 1M0080P06 AZ345541 1M0080P06
c 998 12.2 0.9 25 12 AZ345541 1M0080P06 AZ345541 1M0080P06
c 999 12.2 0.9 25 12 AZ368070 1M0118A01 AZ368070 1M0118A01
1000 12.2 0.9 25 12 AZ375612 1M0129N04 AZ375612 1M0129N04
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## ALIGNMENTS

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RESULT 1
BE539470/c 30 bp mRNA linear EST 09-AUG-2000
LOCUS 601060134F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3446720 5',
DEFINITION mRNA sequence.
ACCESSION BE539470
VERSION BE539470.1 GI:9768115
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 30)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM8419 row: c column: 09
High quality sequence stop: 30.
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FEATURES
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1. .30
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3446720"
/cell_line="NIH_MGC_10"
/location="MGC36"
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/lab_host="DH10B"
/note="Organ: cervix; Vector: pCMV-Sport6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 1.5 kb. Library prepared by Life
Technologies."
BASE COUNT 2 a 8 c 18 g 2 t
ORIGIN
Query Match 1.2%; Score 17.8; DB 10; Length 30;
Best Local Similarity 90.5%; Pred. No. 7.3e+06;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 621 gccgcgcgcgcgcgcgcgc 641
||||| ||||| ||||| ||
Db 30 GCCGCCACCGCGCGGCCCC 10
GCCGCCACCGCGCGGCCCC 10
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RESULT 2
AZ324328/c 23 bp DNA linear GSS 29-SEP-2000
LOCUS 1M0046B16F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION clone UUGC1M0046B16 F, DNA sequence.
ACCESSION AZ324328
VERSION AZ324328.1 GI:10379937
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 23)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
```

Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

## JOURNAL COMMENT

Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0046 row: B column: 16  
Seq primer: CGTGTAAACGACGCGCCACT  
Class: plasmid ends  
High quality sequence stop: 23.  
Location/Qualifiers

## FEATURES

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1. .23
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0046B16"
/cell_line="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (9114732114|gb|AF129072.1), a copy-number
```



```

||||| |||| |||| |||| ||||
Db 1 GCTCGCGGCGCGGGAGGCG 21

RESULT 5
BG400161 30 bp mRNA linear EST 12-MAR-2001
LOCUS 602440944F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4556602 5',
DEFINITION mRNA sequence.
ACCESSION BG400161
VERSION BG400161.1 GI:13293609
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 30)
AUTHORS NTIF-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LCM1259 row: h column: 11
High quality sequence stop: 24.
FEATURES
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Location/Qualifiers
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4556602"
/clone_lib="NIH_MGC_75"
/lab_host="DH10B (T1 phage-resistant)"
/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1:
SfiI (ggcgctcgcc); Site 2: SfiI (ggcattatggcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CAGCGCCATTATGGCC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCCGAGCGCGGCATG-dh(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."
BASE COUNT 10 a 5 c 12 g 3 t
ORIGIN
Query Match 1.1%; Score 16; DB 10; Length 30;
Best Local Similarity 79.2%; Pred. No. 1.5e+07;
Matches 19; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 154 cagcagaagtggtgagtggtacag 177
||||| ||| ||||| |||||
Db 4 CAGCAGGAGGAGGAGCAGGACATG 27

RESULT 6
AZ627848 20 bp DNA linear GSS 13-DEC-2000
LOCUS 1M0474G14F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION clone UUGC1M0474G14 F, DNA sequence.
ACCESSION AZ627848
VERSION AZ627848.1 GI:11750134
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 7
TA263A05P/c 28 bp DNA linear GSS 13-DEC-2000
LOCUS T. brucei sheared genomic DNA clone 263a05, forward sequence,
DEFINITION genomic survey sequence.
ACCESSION AL483783
VERSION AL483783.1 GI:11849873
KEYWORDS GSS.
SOURCE Trypanosoma brucei.
ORGANISM Trypanosoma brucei
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;

```

```

1 (bases 1 to 20)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: rdunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0474 row: G column: 14
Seq primer: CGTGTAAACACGACGGCCACT
Class: plasmid ends
High quality sequence stop: 20.
FEATURES
Location/Qualifiers
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/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0474G14"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (gll4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
BASE COUNT 2 a 0 c 17 g 1 t
ORIGIN
Query Match 1.1%; Score 15.8; DB 12; Length 20;
Best Local Similarity 89.5%; Pred. No. 1.5e+07;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1191 agagtgtgggtgggtggggg 1209
||||| |||| ||||| |||||
Db 1 AGAGTGGGGGGGGGGGGGGG 19

RESULT 7
TA263A05P/c 28 bp DNA linear GSS 13-DEC-2000
LOCUS T. brucei sheared genomic DNA clone 263a05, forward sequence,
DEFINITION genomic survey sequence.
ACCESSION AL483783
VERSION AL483783.1 GI:11849873
KEYWORDS GSS.
SOURCE Trypanosoma brucei.
ORGANISM Trypanosoma brucei
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;

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LOCUS TA285E07Q 30 bp DNA linear GSS 13-DEC-2000  
 DEFINITION T. brucei sheared genomic DNA clone 285e07, reverse sequence, genomic survey sequence.  
 ACCESSION AL485454  
 VERSION AL485454.1 GI:11853017  
 KEYWORDS GSS.  
 SOURCE Trypanosoma brucei.  
 ORGANISM Trypanosoma brucei  
 Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;  
 Trypanosoma.  
 REFERENCE 1 (bases 1 to 30)  
 AUTHORS Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S.E., Rajandream, M.A. and Barrell, B.G.  
 TITLE Direct Submission  
 JOURNAL Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nhiesanger.ac.uk  
 COMMENT Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The v + i method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).  
 Email: nelsayed@tigr.org  
 Details of T. brucei sequencing at the Sanger Centre are available at [http://www.sanger.ac.uk/Projects/T\\_brucei/](http://www.sanger.ac.uk/Projects/T_brucei/).

## FEATURES

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 /strain="TREU927"  
 /db\_xref="taxon:5691"  
 /clone="285e07"

BASE COUNT 5 a 11 c 9 g 5 t  
 ORIGIN

Query Match 1.1%; Score 15.6; DB 12; Length 30;  
 Best Local Similarity 70.0%; Pred. No. 1.8e+07;  
 Matches 21; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
 Qy 857 ggcgttcgtgcagccgagggccgcgcg 886  
 Db 1 GCCGGTTGTCATCCCAACGCTGCAACG 30

## RESULT 13

LOCUS AZ406180 25 bp DNA linear GSS 03-OCT-2000  
 DEFINITION IM0175M18F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0175M18 F, DNA sequence.  
 ACCESSION AZ406180  
 VERSION AZ406180.1 GI:10530193  
 KEYWORDS GSS.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 25)  
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.  
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 JOURNAL Unpublished (2000)  
 COMMENT Contact: Robert B. Weiss  
 University of Utah Genome Center

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0175 row: M column: 18  
 Seq primer: CGTTGTAACGACGGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 25.  
 Location/Qualifiers  
 1..25

## FEATURES

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/organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0175M18"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /sex="Male"

/lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 0 a 23 c 1 g 1 t  
 ORIGIN

Query Match 1.1%; Score 15.4; DB 12; Length 25;  
 Best Local Similarity 76.0%; Pred. No. 1.9e+07;  
 Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
 Qy 622 ccgcgcgcgcgcgcgcgcgcgcgcgcgcgc 646  
 Db 1 CCCCCCCCCCCCCCGCCGCGCTCCCC 25

## RESULT 14

LOCUS AZ774195 27 bp DNA linear GSS 16-FEB-2001  
 DEFINITION 2M0003M17F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0003M17 F, DNA sequence.  
 ACCESSION AZ774195  
 VERSION AZ774195.1 GI:12899369  
 KEYWORDS GSS.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 27)  
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.  
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 JOURNAL Unpublished (2000)  
 COMMENT Contact: Robert B. Weiss  
 University of Utah Genome Center

University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0003 row: M column: 17  
Seq primer: CGTTGTAACACGACGCCAGT  
Class: plasmid ends  
High quality sequence stop: 27.

FEATURES

source  
1. .27  
Location/Qualifiers  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0003M17"  
/clone\_lib="Mouse 10kb plasmid UUGCLM library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/notes="Vector: pWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (q14732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

BASE COUNT 5 a 9 c 5 g 8 t  
ORIGIN

Query Match 1.1%; Score 15.4; DB 12; Length 27;  
Best Local Similarity 76.0%; Pred. No. 1.9e+07;  
Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1238 tccatccagaagcgggggttaca 1262  
||||||| | | ||| | |||  
Db 3 TCCATCCCTGTAATGGGTTACA 27

RESULT 15  
AI282448/c  
LOCUS  
DEFINITION AI282448 28 bp mRNA linear EST 21-DEC-1998  
similar to WP:T22D1.2 CE17246 ;, mRNA sequence.  
ACCESSION AI282448  
VERSION AI282448.1 GI:3920681  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 28)  
REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
TITLE Tumor Gene Index  
JOURNAL Unpublished (1997)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
CDNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www.bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality  
Insert Length: 1538 Std Error: 0.00  
Seq primer: -40UP from Gibco  
High quality sequence stop: 1.

FEATURES

source  
1. .28  
Location/Qualifiers  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1980590"  
/clone\_lib="NCI-CGAP\_Kid8"  
/tissue\_type="renal cell tumor"  
/lab\_host="DH10B"  
/notes="Organ: kidney; Vector: pCMV-SPORT6; Site\_1: SalI;  
Site\_2: NotI; Cloned unidirectionally. Primer: Oligo dt.  
Average insert size 1.2 kb. Life Technologies catalog #:  
11524-014"

BASE COUNT 9 a 13 c 6 g 0 t  
ORIGIN

Query Match 1.1%; Score 15.4; DB 9; Length 28;  
Best Local Similarity 76.0%; Pred. No. 1.9e+07;  
Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1194 gtgtgggtgggggggactgttt 1218  
|| |||| ||||| | |||  
Db 25 GTTTGGGGGGGGGCCCTTTT 1

Search completed: August 18, 2002, 18:36:02  
Job time: 4927 sec



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